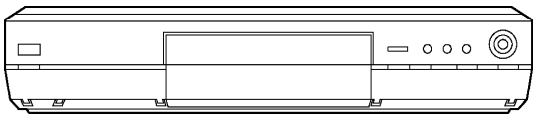
ORDER NO.ODSD020948C8

DVD Video Recorder

DMR-HS2EB / DMR-HS2EB1 / DMR-HS2EG / DMR-HS2EG1 / DMR-HS2GN

Colour

(S).....Silver Type



SPECIFICATIONS

Specifications

Power supply:	**AC220-240 V, 50 Hz**
Power consumption:	**39 W**
Recording system:	**DVD video recording standards (DVD-RAM),** **DVD video standards (DVD-R)**
Hard disk drive capacity:	**40 GB**
Recordable discs:	**12 cm 4.7 GB DVD-RAM** **12 cm 9.4 GB DVD-RAM** **8 cm 2.8 GB DVD-RAM** **12 cm 4.7 GB DVD-R** **(for General Ver. 2.0)**
Recording time:	**Max. 6 hours** **(using 4.7 GB disc)** **XP: Approx. 1 hour** **SP: Approx. 2 hours** **LP: Approx. 4 hours** **EP: Approx. 6 hours** **Max. 52 hours** **(using Hard disc drive)** **XP:Approx. 8.5 hours** **SP: Approx. 17 hours** **LP: Approx. 34 hours** **EP: Approx. 52 hours**
Region Number:	**Region No.2 (HS2EB/ EB1/ EG/ EG1)** **Region No.4 (HS2GN)**
Playable discs:	**12 cm 4.7 GB DVD-RAM** **12 cm 9.4 GB DVD-RAM** **8 cm 2.8 GB DVD-RAM** **12 cm 4.7 GB DVD-R** **(for General Ver. 2.0)** **DVD-Video** **CD-Audio (CD-DA)** **Video CD** **CD-R/RW** **(CD-DA,Video CD formatted discs)**
Audio	
Recording system:	**Dolby Digital, 2ch** **LINEAR PCM** **(for XP mode only, selectable)**
Audio In:	**AV1/AV2 (21 pin) AV3/AV4 (pin jack)**
Input Level:	**Standard: 0.5 Vms** **Full scale: 2 Vms at 1k Hz**
Input Impedance:	**more than 10k ohm**
Audio Out:	**AV1/AV2 (21 pin) Audio Out (pin jack)**
Output Level:	**Standard: 0.5 Vms** **Full scale: 2Vms at 1k Hz**
Output Impedance:	**less than 1k ohm**
Digital Audio Out:	**Optical terminal (PCM, Dolby Digital, DTS, MPEG)**
Television System	
Tuner System:	**PAL I 75 ohm**

Channel Coverage:		
DMR-HS2EB/EB1 only	**UHF:**	**CH 21-68**
DMR-HS2EG/EG1 only	**VHF:**	**CH E2-E12, A-H2 (For Italy)**
	UHF:	**CH 21-69**
	CATV:	**CH S01-S05 (S1-S3)** **S1-S20 (M1-U10)** **S21-S41 [8MHz, RASTER]**
DMR-HS2GN	**VHF:**	**CH 0-12**
(For Australia)	**UHF:**	**CH 28-69**
	CATV:	**45MHz-470MHz**
DMR-HS2GN	**VHF:**	**CH 1-11**
(For New Zealand)	**UHF:**	**CH 21-69**
	CATV:	**44MHz-470MHz**
RF Converter Output:	**UHF:**	**CH21-68, 75 ohm** **(For the United kingdom)** **Not provided** **(Except the United kingdom)**
Video		
Video System:	**PAL colour signal, 625 lines, 50 fields** **NTSC colour signal, 525 lines, 60 fields**	
Recoeding system:	**MPEG2 (Hybrid VBR)**	
Video in:	**AV1/AV2 (21 pin), AV3/AV4 (pin jack)** **1Vp-p 75 ohm, terminated**	
S-Video in:	**AV2 (21 pin), AV3/AV4 (S terminal)** **1Vp-p 75 ohm, terminated**	
RGB In:	**AV2 (21 pin), 0.7Vp-p (PAL) 75 ohm, terminated**	
Video Out:	**AV1/AV2 (21 pin), Video Out (pin jack)** **1Vp-p 75 ohm, terminated**	
S-Video Out:	**AV1 (21 pin), S-Video Out(S terminal)** **1Vp-p 75 ohm, terminated**	
RGB Out:	**AV1 (21 pin) 0.7Vp-p (PAL) 75 ohm, terminated**	
Dimensions(W)x(H)x(D):	**Approx. 430x79x306 mm**	
Mass:	**Approx. 4.5 Kg**	
Operating Temperature:	**5 °C-40°C**	
Operating Humidity range:	**10 %-80 % RH (no condensation)**	
LEASER Specification		
Class 1 LASER Product		
Wave Length:	**775-815nm, 655-666nm**	
Laser Power:	**No hazardous radiation is emitted with the safety protection**	
DV Input:	**4 pin**	
PC card slot:	**PC Card Type II**	

Compatible media:	**A PC Card adaptor conforming to PC Card Standards** **PC Card adaptor (SD Memory Card, Multi Media Card, Compact Flash, Smart Media, Memory Stick)**
Format:	**FAT12 or FAT16**
Image format:	**JPEG conforming to DCF (Design Rules for Camera Files System universal standard)** **DPOF Compatible**
Number of pixels:	**320×240 to 6144×4096** **(sub sampling; 4:2:2 or 4:2:0)**
Thawing time:	**Approx. 7 sec. (2 M pixels)**

Notes:

Mass and dimensions shown are approximate.

Specifications are subject to change without notice.

Notes:

The part of DVD RAM Drive (VXY1748) is listed separately.

Please refer to ORDER NO. DSD0207004C0.

© 2002 Matsushita Electric Industrial CO., Ltd. All rights reserved.
Unauthorized copying and distribution is a violation of law.

Panasonic

1. COMPARISON CHART

1.1. Comparison for each part

Below chart is mentioned different items for each models.

PARTS NAME	PART NO.	EB/EB1	EG/EG1	GN
MAIN P.C.B.	REP2577C	---	●	●
	REP2577D	●	---	---
VIF DECODER P.C.B.	VEP07A23S	---	●	●
	VEP07A23T	●	---	---
DIGITAL P.C.B.	REP3391AC	---	●	---
	REP3391AE	---	---	●
	REP3391CE	●	---	---
REAR PANEL	RGR0328C-C	---	●	---
	RGR0328C-D	●	---	---
	RGR0328C-H	---	---	●
FRONT PANEL ASS'Y2	RYP1142B-S	---	●	---
	RYP1142C-S	●	---	---
	RYP1142D-S	---	---	●
DOOR(R)	RKF0643F-S	---	●	---
	RKF0643G-S	●	---	---
	RKF0643J-S	---	---	●
REMOTE CONTROL ASS'Y	EUR7615KE0	●	---	---
	EUR7615KD0	---	●	---
	EUR7615KL0	---	---	●
AC CORD	RJA0053-3X	●	---	---
	VJA0754	---	---	●
	VJA1059	---	●	---
OPERATING INSTRUCTIONS	RQT6597-B	●	---	---
	RQT6598-E	---	●	●
	RQT6599-D	---	●	---
	RQT6600-J	---	●	---
PACKING CASE	RPG6046	---	●	---
	RPG6047	●	---	---
	RPG6176	---	---	●

Note:
Only DMR-HS2EB/EG have RAM disc as accesary.
However, this disc is not supplied as service part.

1.2. Comparison for function

Function	DMR-HS2EB/EB1	DMR-HS2EG/EG1/GN
Owner ID	●	---
Power Save	---	●
Language	---	●
Country	---	●

2. SAFETY PRECAUTIONS

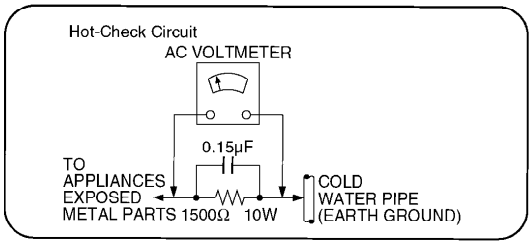
2.1. GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.1.1. LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to thechassis, the reading should be between 1MΩ and 5.2MΩ. / When the exposed metal does not have a return path to the chassis, the reading must be ∞.

Figure 1



2.1.2. LEAKAGE CURRENT HOT CHECK (See Figure 1 .)

1. **Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
2. **Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1 0.**
3. **Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current mu3st not exceed 1/ 2 milliamp. In case a measurement is outsideof the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

3. PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistorsand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil,**

to prevent electrostatic charge buildup or exposure of the assembly.

3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparableconductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).**

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4. Precaution of Laser Diode

CAUTION:

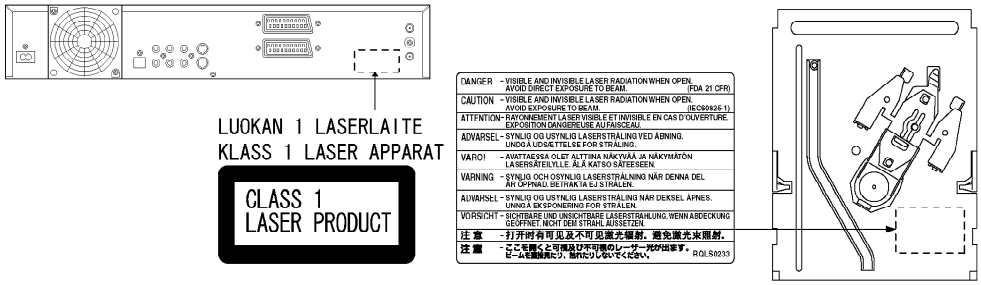
This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.
Wave length: 775-815 nm/655-666 nm
Maximum output radiation power from pickup: 100 μ W/VDE
Laser radiation from the pickup lens is safety level,but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

ACHTUNG:

Dieses Produkt enthält eine Laserdiode.
Im eingeschalteten Zustand wird unsichtbare Leserstrahlung von der Laserinheit adgestrahit.
Wellenlänge: 775-815 nm/655-666 nm
Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE
Die Strahlungan der Lasereinheit ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlines blicken.
4. Nicht über längere Zeit in die Fokussierlines blicken.


LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT
CLASS 1
LASER PRODUCT
DANGER – VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)
CAUTION – VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
ATTENTION – RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL – SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO! – AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING – SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
AUVAHSL – SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT – SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
注 意 – 打开时有可见及不可见激光辐射，避免激光束照射。
注 意 – ここを開くと可視及び不可視のレーザー光が出ます。ビームを直視内こう。当たにしないでください。
RQLS0333

CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

5. How to replace the Lithium Battery

REPLACEMENT PROCEDURE

1. Remove the Top cover and DVD-RAM drive unit with Main P.C.B. by referring the Disassembling Procedure.

2. Unsolder the Lithium Batteries: B7501 and then replace it into new one.
(As shown in 9.10. The Main P.C.B.)

NOTE:

The lithium battery is a critical component. (Type No.: CR2354-1GUF Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

(For English)

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

(For French)

PRECAUTION

Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion.
Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

(For German)

VORSICHT

Bei einer falsch eingesetzten Batterie besteht Explosionsgefahr. Nur mit einer vom gleichen Typ ersetzen.
Verbrauchte Batterien beim Fachhändler oder einer Sammelstelle für Sonderstoffe abliefern.

(For Swedish)

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

(For Norwegian)

ADVARSEL!

Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.
Udskiftning má kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

(For Finnish)

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.
Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

6. Handling the Lead-free Solder

6.1. About lead free solder (PbF)

Distinction of PbF P.C.B.:
P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control,please set it to 700 ± 20°F (370 ± 10°C).

- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).

- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the

soldering points with the Pb free solder until it melts enough.

7. General Description

7.1. Control reference guide

7.2. PC CARD (JPEG)

7.3. Still pictures (JPEG)

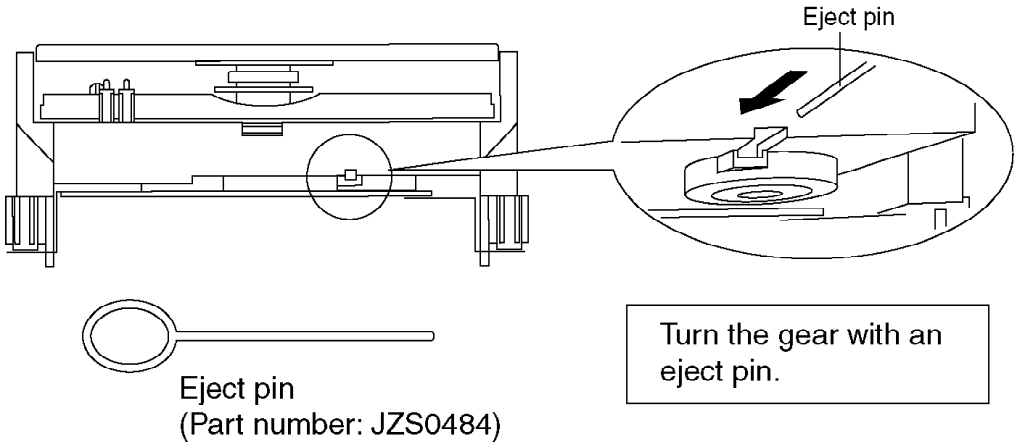
7.4. Checking the Accessories

8. Notes When Servicing the Unit

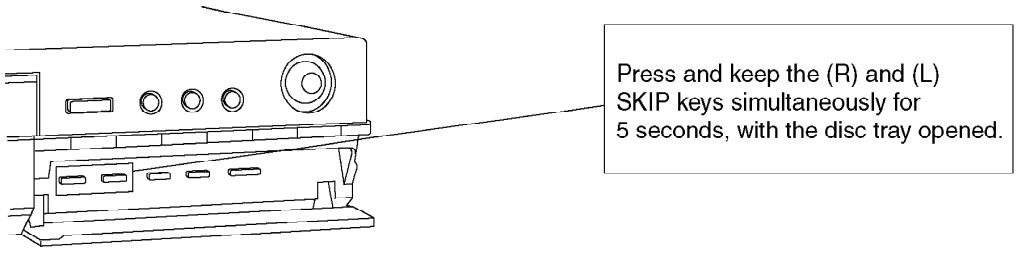
Perform the servicing according to the following procedures.

8.1. When the disc of a customer cannot be pulled out due to a failure

1. **Remove the top case and front case according to the disassembly procedures of each component.**
2. **Insert the eject pin into the hole on the front side of the drive to push the gear inside the hole several times. Then the tray opens slowly. (The operation is as same as the operation in the RAM drive)**



8.2. When the ratings password is forgotten



8.3. When the disc cannot be taken out due to sales demonstration lock function

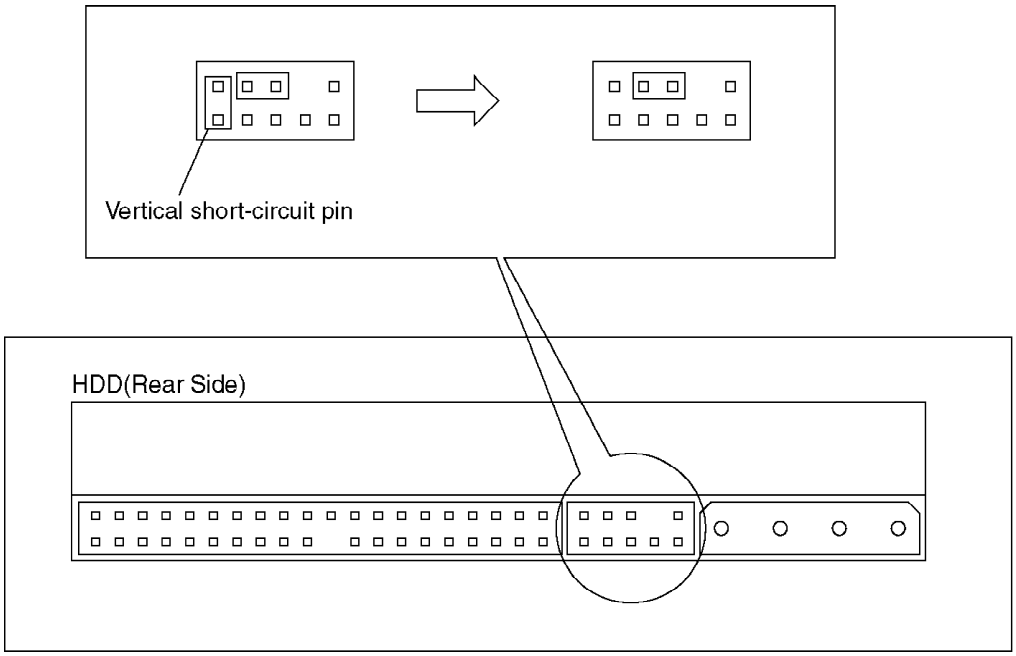
(Press the open/close key and make sure that "LOCKED" appears on the display window.)
In this condition, press the "Stop" and "Power" buttons simultaneously for 5 seconds while the unit is standstill, releasing the lock function.
(To make the unit "LOCKED" condition, press the "Stop" and "Power" buttons simultaneously for 5 seconds while the unit is standstill.)

8.4. Handling of HDD

The following precautions should be taken when handling HDD.

1. **Never give an impact to HDD. (Even a drop from 1cm height can be a cause of HDD failure.)**
2. **When placing HDD on a workbench, provide a mat on a bench for shock absorption and anti-static purposes.**
3. **When installing HDD, release it from your hands only after confirming that it is fully set on the chassis.**
4. **Avoid stacking up HDD.**
5. **HDD is unstable and easy to fall. Do not stand it on its side face.**
6. **When handling HDD, hold its side faces to avoid static hazard.**
7. **Do not place HDD on its wrapping bag after removal. (Prevention of static hazard)**
8. **Use a screwdriver with low impact and anti-static features.**
9. **To replace HDD, remove the vertical short-circuit pin.**

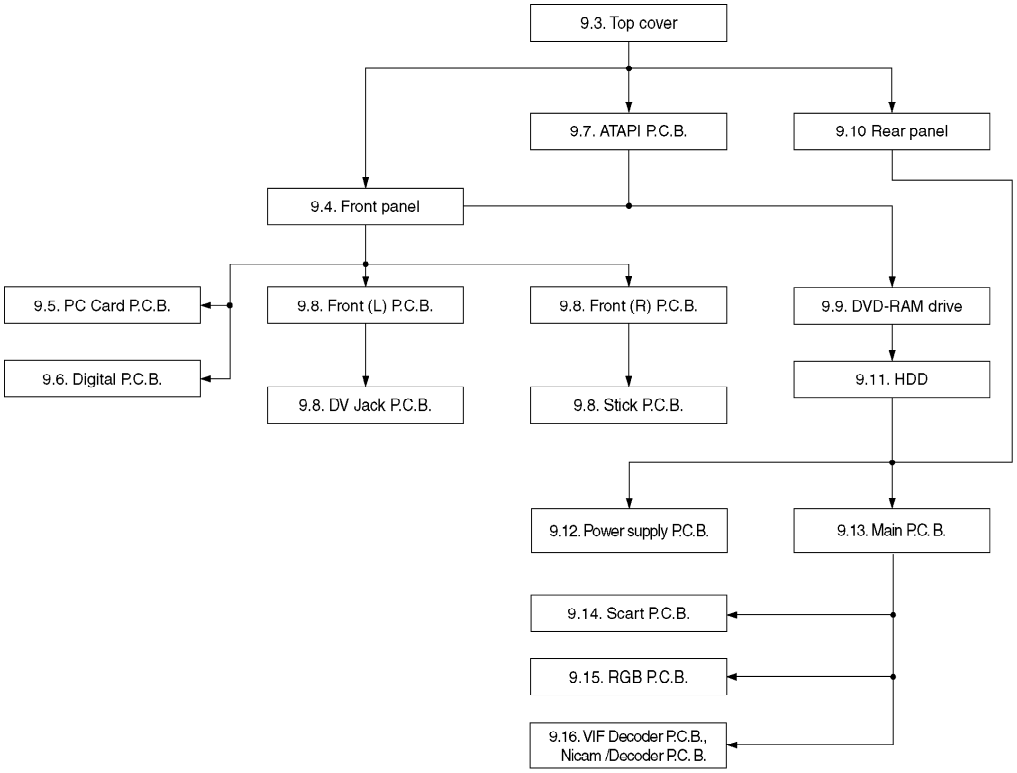
Note:
Keep the horizontal short-circuit pin in its place.



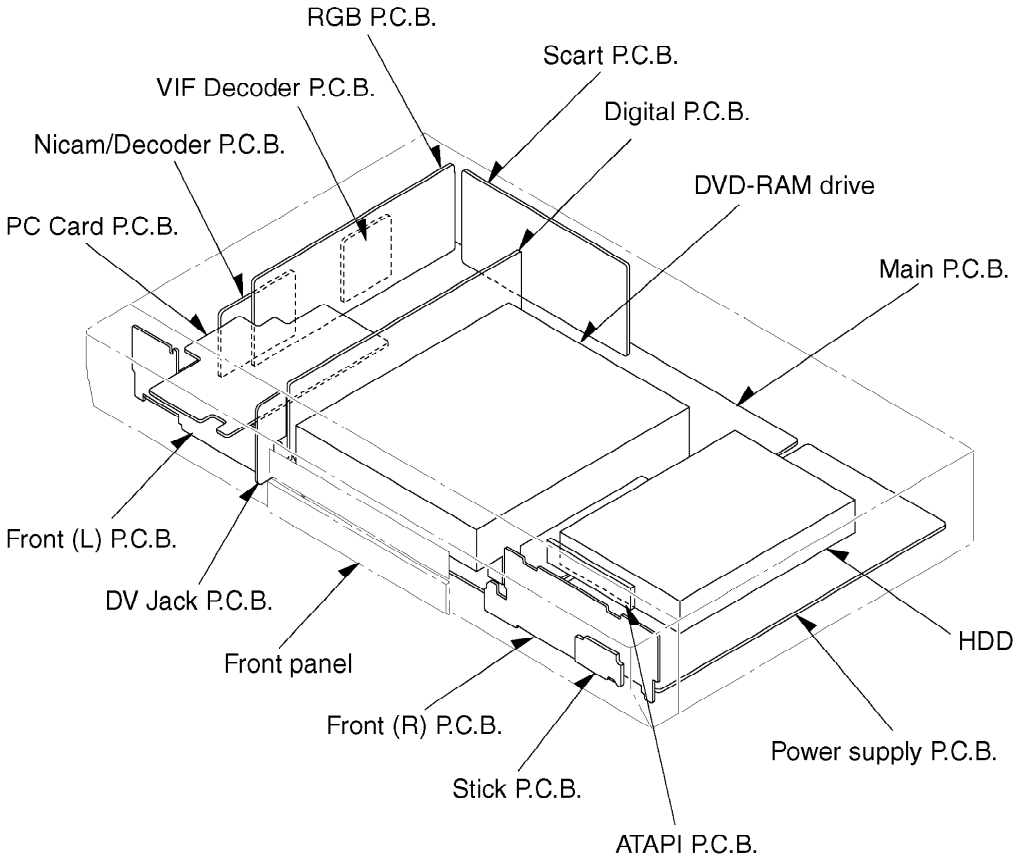
9. Assembling and Disassembling

9.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the flow chart below.



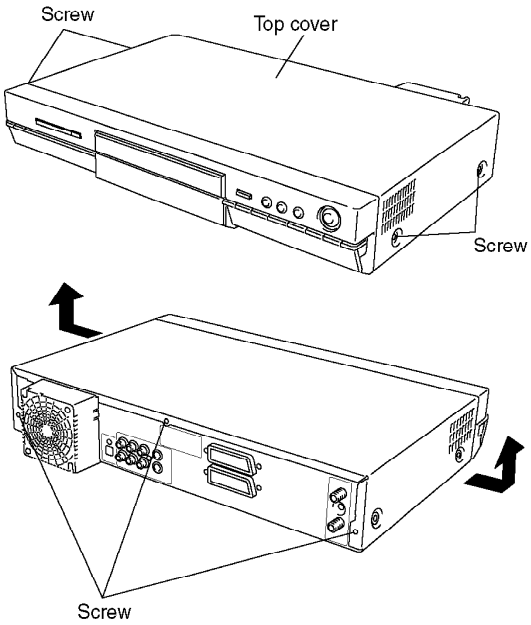
9.2. P.C.B. positions



9.3. The Top cover

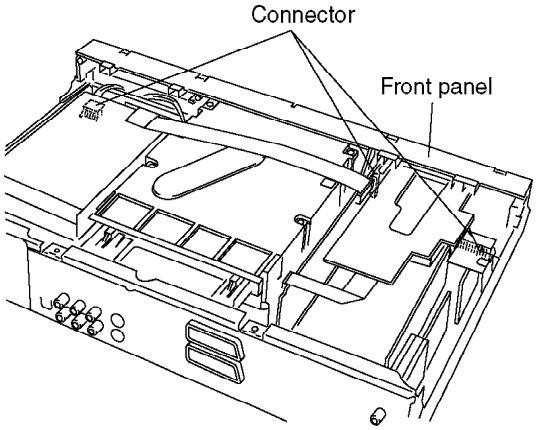
1. Remove the 7 screws.

2. Open the both ends at the front side of the Top cover a bit and lift the Top cover in the direction of the arrows.



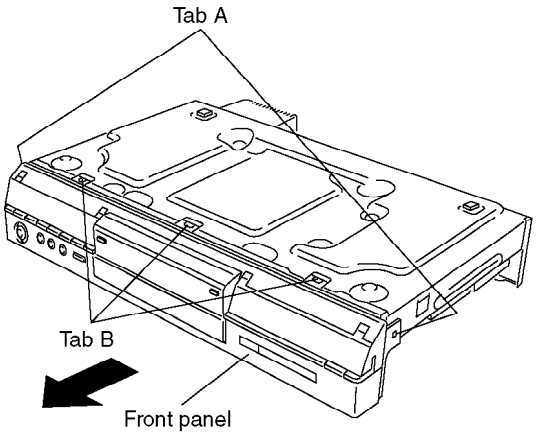
9.4. The Front panel

1. Remove the 3 connectors.



2. Remove at the same time 2 tab A and 3 tab B.

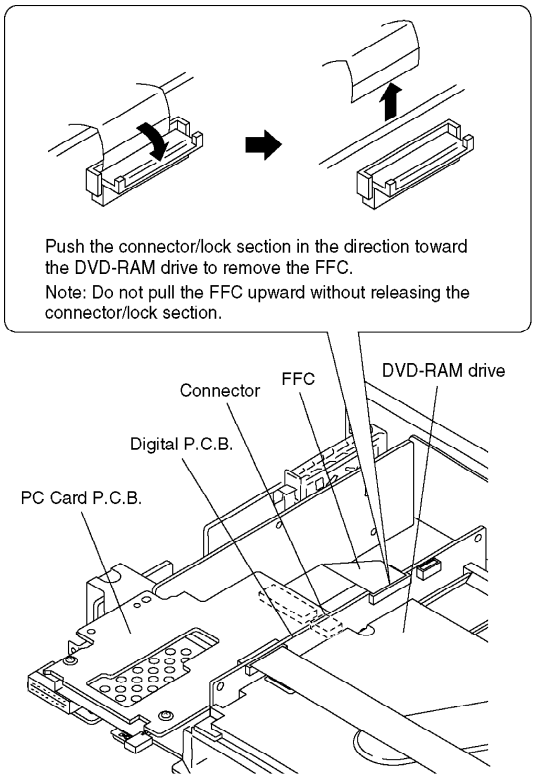
3. Move the front panel to your side slowly and remove it.



9.5. The PC Card P.C.B.

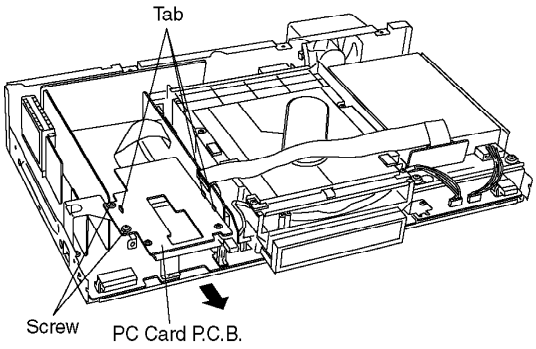
1. Remove the FFC.

2. Remove the connector.


Push the connector/lock section in the direction toward the DVD-RAM drive to remove the FFC.
Note: Do not pull the FFC upward without releasing the connector/lock section.
Connector
FFC
DVD-RAM drive
Digital P.C.B.
PC Card P.C.B.

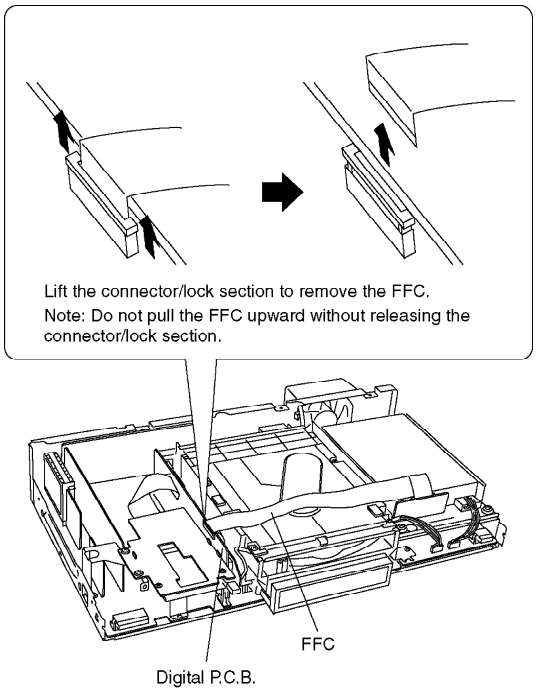
3. Remove the 2 screws.

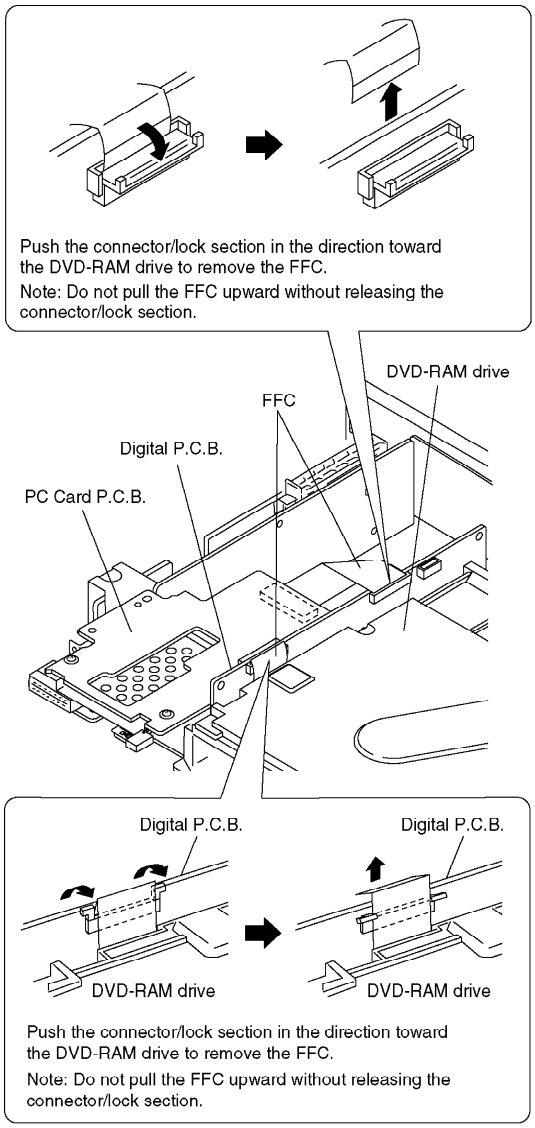
4. It makes the PC Card P.C.B. move to the direction of the arrow and it removes it from the 3 tabs.



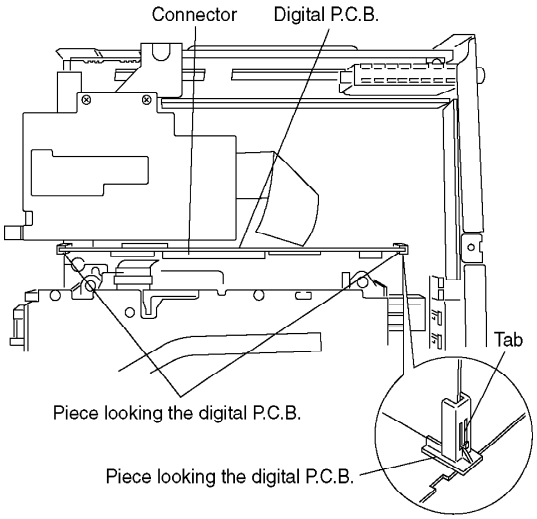
9.6. The Digital P.C.B.

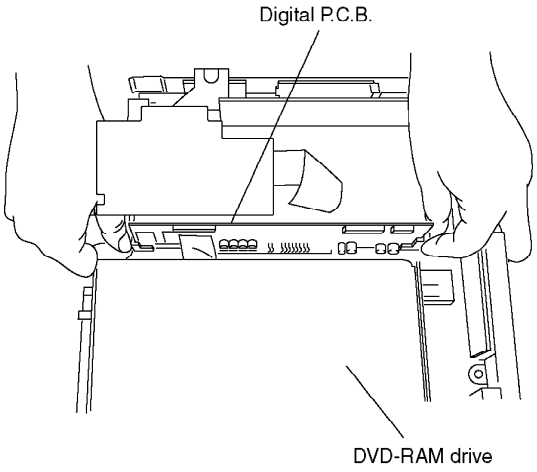
1. Remove the 3 FFCs.


Lift the connector/lock section to remove the FFC.
Note: Do not pull the FFC upward without releasing the connector/lock section.
FFC
Digital P.C.B.

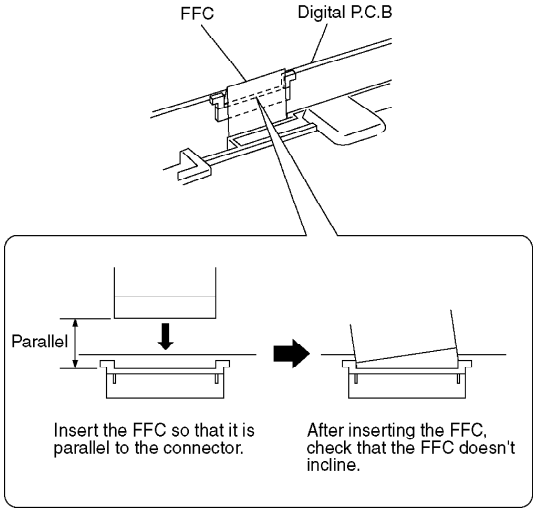

Push the connector/lock section in the direction toward the DVD-RAM drive to remove the FFC.
Note: Do not pull the FFC upward without releasing the connector/lock section.
DVD-RAM drive
FFC
Digital P.C.B.
PC Card P.C.B.
Digital P.C.B.
Digital P.C.B.
DVD-RAM drive
DVD-RAM drive
Push the connector/lock section in the direction toward the DVD-RAM drive to remove the FFC.
Note: Do not pull the FFC upward without releasing the connector/lock section.

2. Open the tabs for the pieces locking the Digital P.C.B. and slowly lift the Digital P.C.B. in the vertical direction to remove the connector.



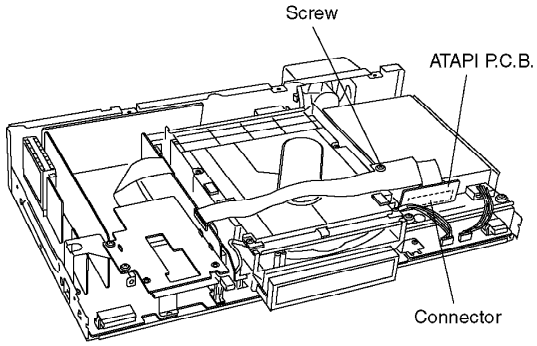


CAUTION:
When replacing Digital P.C.B., pay attention as below.

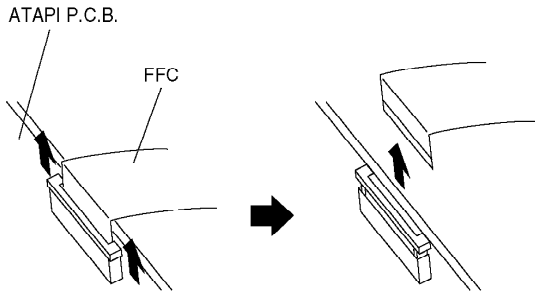

FFC
Digital P.C.B
Parallel
Insert the FFC so that it is parallel to the connector.
After inserting the FFC, check that the FFC doesn't incline.

9.7. The ATAPI P.C.B.

1. Remove the screw.
2. Remove the connector.



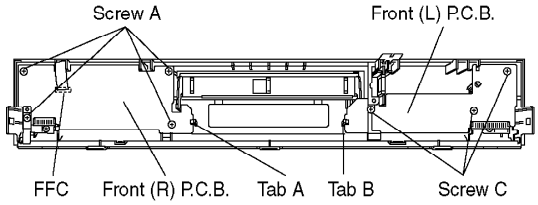
3. Remove the FFC.



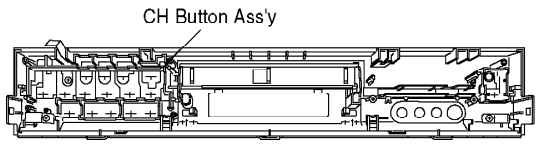
Lift the connector/lock section to remove the FFC.
Note: Do not pull the FFC upward without releasing the connector/lock section.

9.8. The Front (L)/(R) P.C.B.,Stick P.C.B. and DV Jack P.C.B.

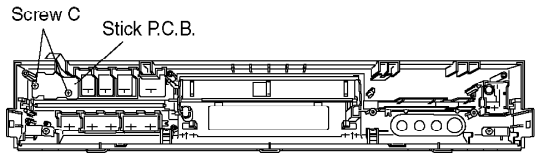
1. Remove the FFC.
2. Remove the 4 screws A, tab A and the Front (R) P.C.B. in this order.



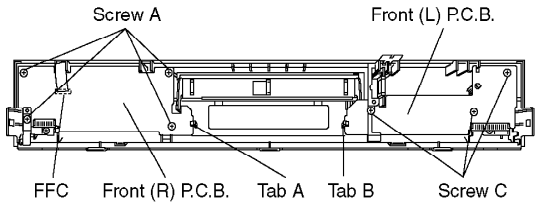
3. Remove the CH Button Ass'y.



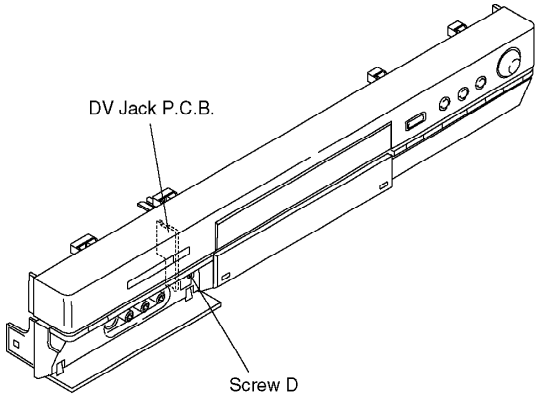
4. Remove the 2 screws B and the Stick P.C.B. in this order.



5. Remove the 3 screws C, tab B and the Front (L) P.C.B. in this order.



6. Remove the screw D and the DV Jack P.C.B. in this order.

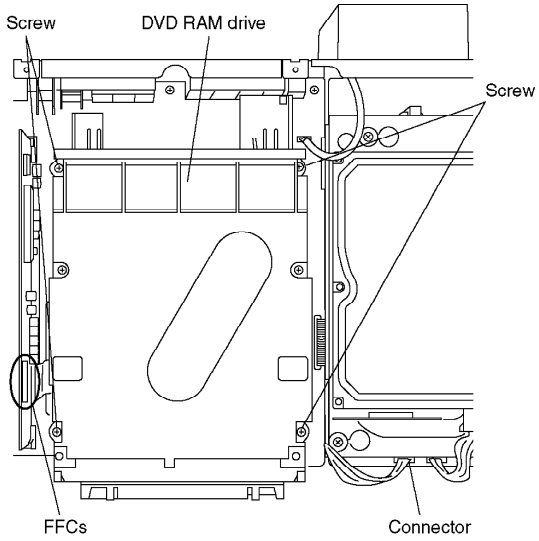


9.9. The DVD-RAM drive

1. Remove the 2 FFCs. (Refer to 9.6.)

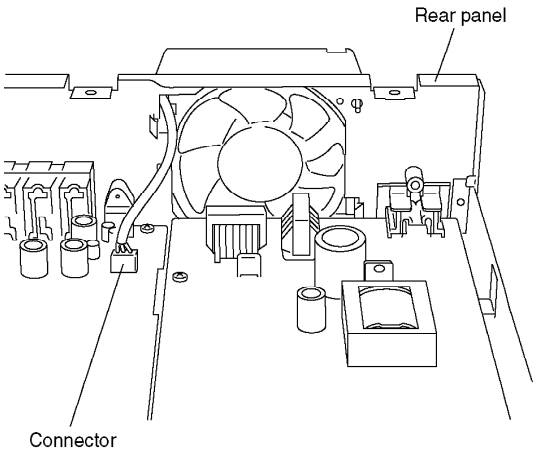
2. Remove the connector.

3. Remove the 4 screws.



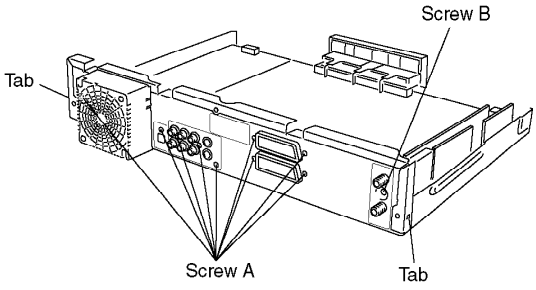
9.10. The Rear panel

1. Remove the connector.



2. Remove the 8 screws A and 1 screw B.

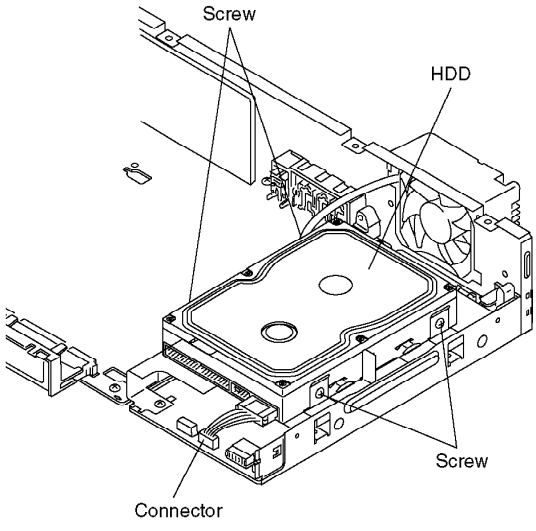
3. Remove the tabs.



9.11. The HDD

1. Remove the connector.

2. Remove the 4 screws.

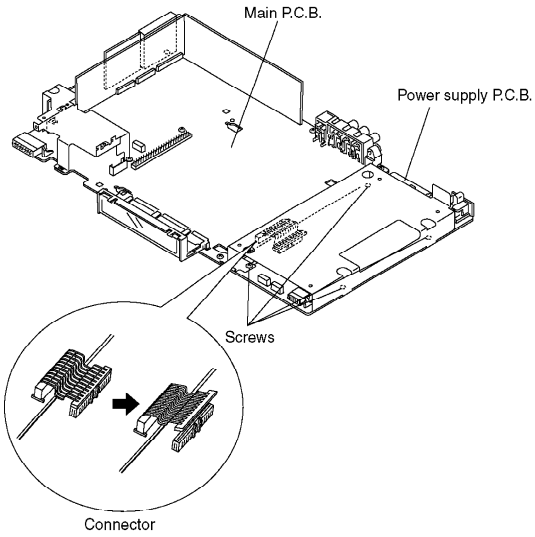


9.12. The Power supply P.C.B.

1. Remove the 4 screws.

2. Remove the connector.

3. Remove the Power supply P.C.B.

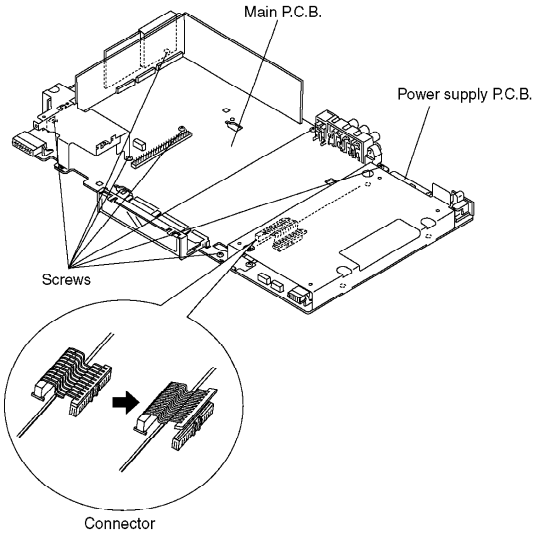


9.13. The Main P.C.B.

1. Remove the 7 screws.

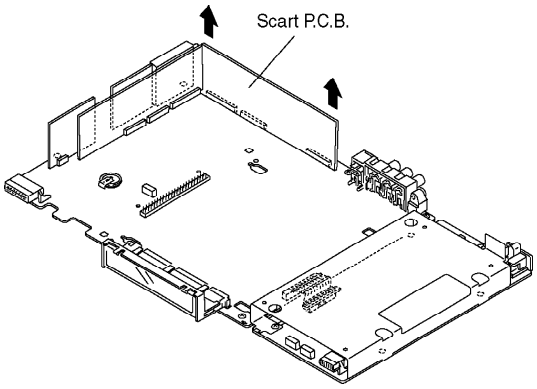
2. Remove the connector.

3. Remove the Main P.C.B.



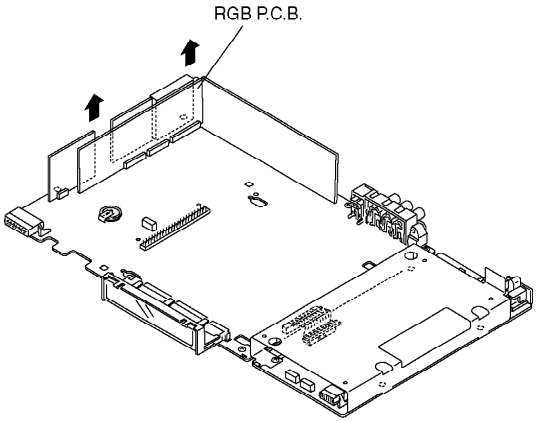
9.14. Scart P.C.B.

1. Pull out the Scart P.C.B.

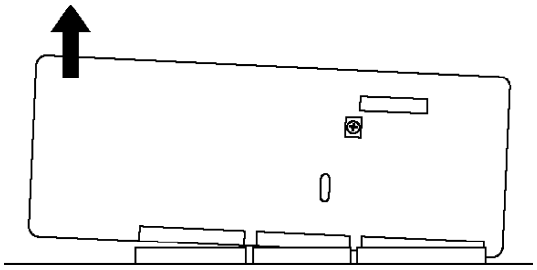


9.15. RGB P.C.B.

1. Pull out the R.G.B. P.C.B.



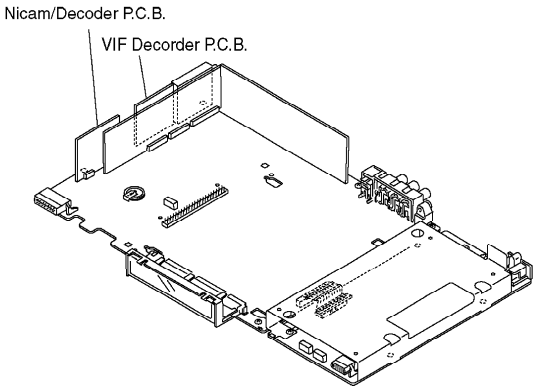
Note:
Pull out the RGB and Scart P.C.B. after removing at a slant.



9.16. The VIF Decoder P.C.B. and Nicam/Decoder P.C.B.

1. Remove the solder.

2. Remove the connector.

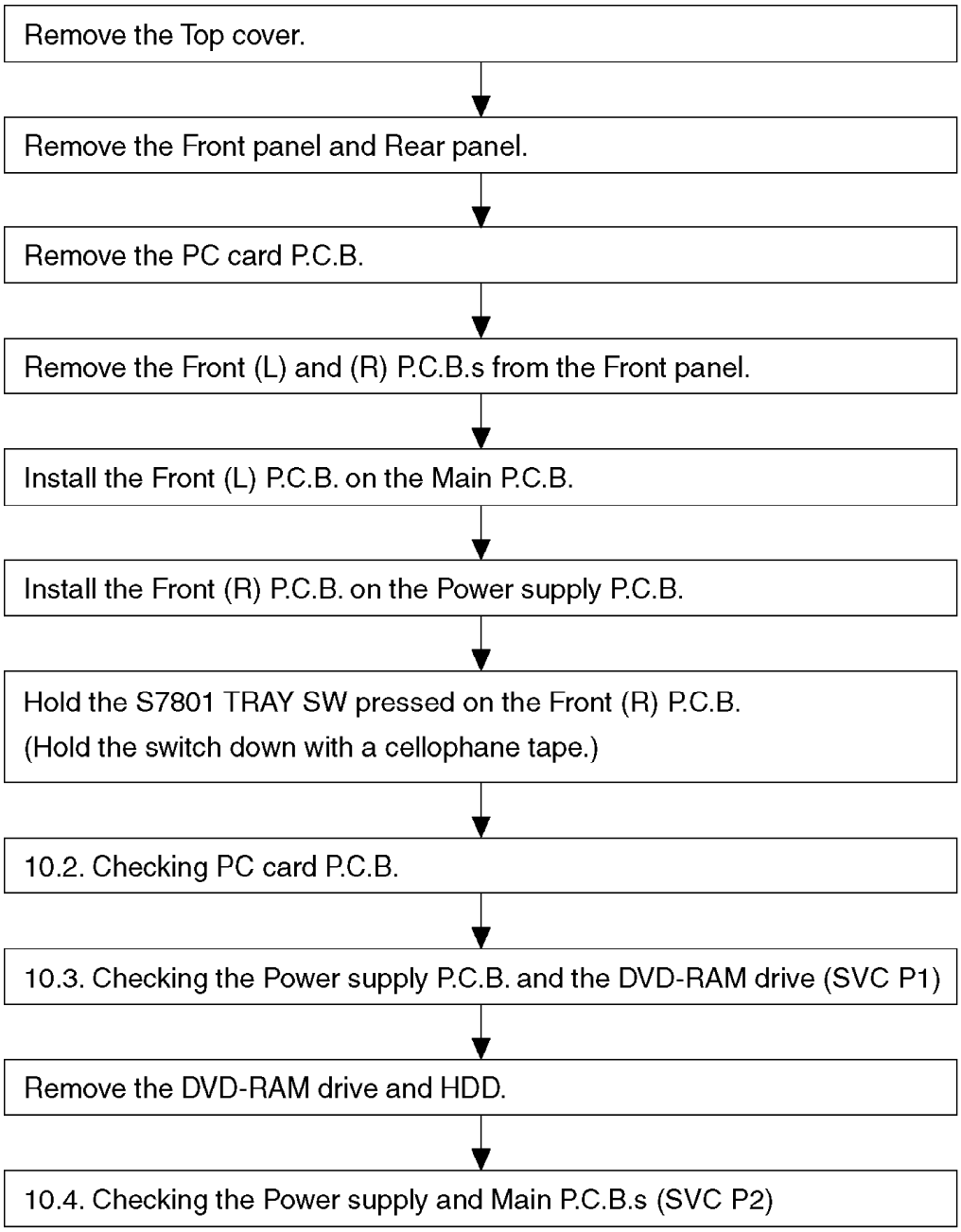


10. Service Positions and Tools

10.1. Checking procedure

Follow the flowchart below and inspect the DVD recorder.

Note:
For the disassembling procedure, see the section 9.


Remove the Top cover.
Remove the Front panel and Rear panel.
Remove the PC card P.C.B.
Remove the Front (L) and (R) P.C.B.s from the Front panel.
Install the Front (L) P.C.B. on the Main P.C.B.
Install the Front (R) P.C.B. on the Power supply P.C.B.
Hold the S7801 TRAY SW pressed on the Front (R) P.C.B.
(Hold the switch down with a cellophane tape.)
10.2. Checking PC card P.C.B.
10.3. Checking the Power supply P.C.B. and the DVD-RAM drive (SVC P1)
Remove the DVD-RAM drive and HDD.
10.4. Checking the Power supply and Main P.C.B.s (SVC P2)

10.2. Checking PC card P.C.B.

1. Check the operations in service mode.

Note:
See Section 11 for the details.

2. If any abnormality is found, proceed with the next step.

10.3. Checking the Power supply P.C.B. and the DVD-RAM drive

1. Remove the PS104 connector.

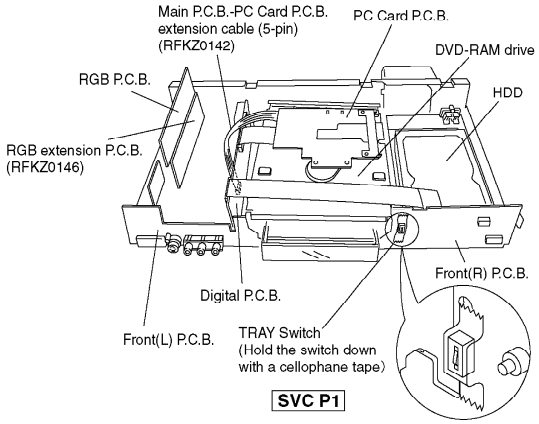
2. Use the extension cable (RFKZ0126) to connect the DVD-RAM drive and the Power supply P.C.B.
3. Check the voltage supplied to PC card P.C.B. and UART P.C.B. If any abnormality is found, proceed with SVC P2 in 10.4.
4. Measure each terminal of the PS102/PP9902 connector.

PS102/PP9902 Connector Reference Voltage.

PIN. NO.	Voltage
1	+15.5V
2	+5.9V
3	+5.9V
4	+5.0V
6	+5.0V
8	+12.0V
10	+3.3V
12	+1.8V
13	+1.8V

5. If any failure is found, go to SVC P2 in section 10.4.

Service tools	
RAM drive-Power supply P.C.B. extension cable	RFKZ0126 (4-pin)
Main P.C.B.-PC Card P.C.B. extension cable	RFKZ0142 (5-pin)
RGB extension cable	RFKZ0146



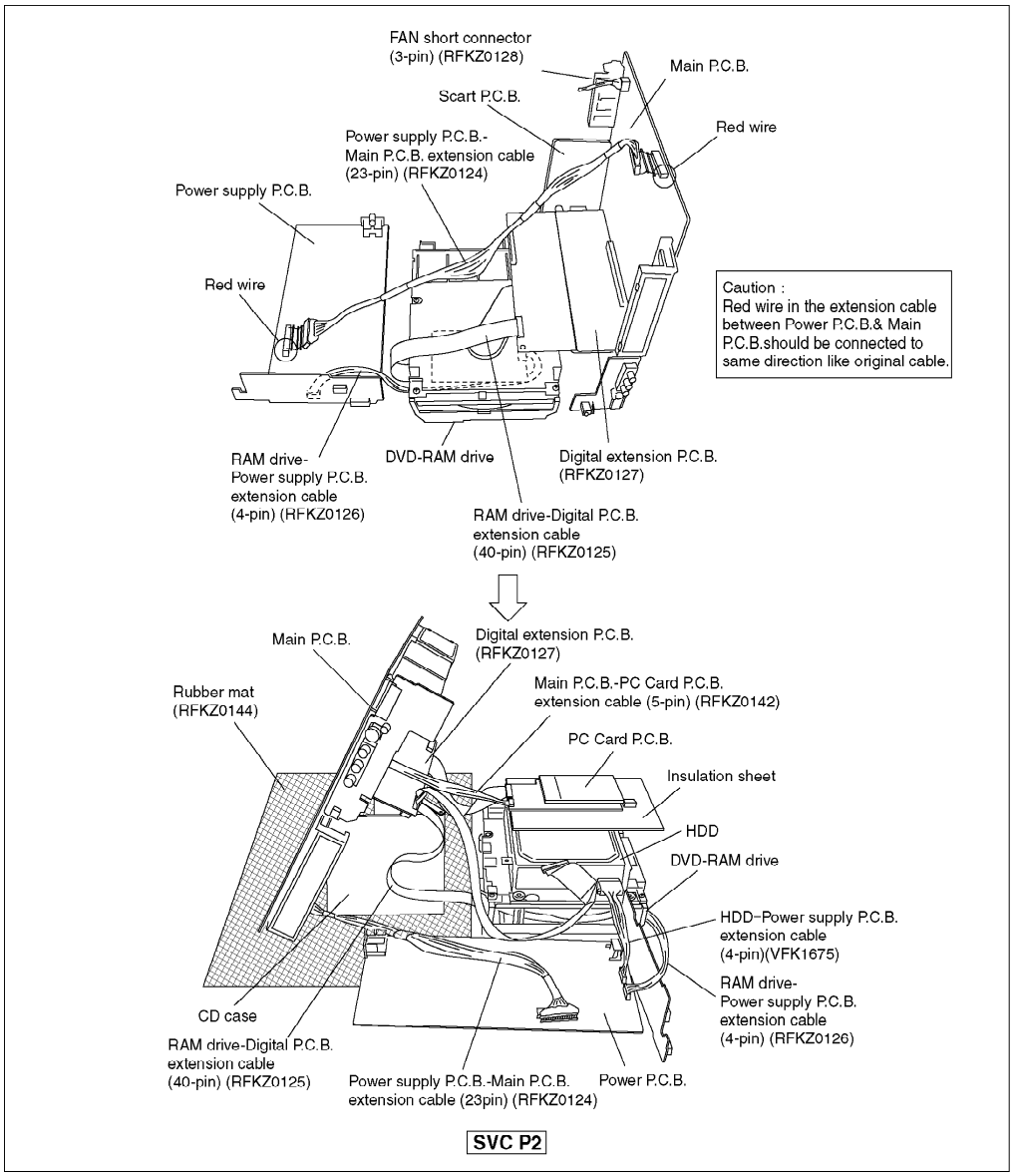
10.4. Checking the Power supply and Main P.C.B.s

1. Use the extension cable (RFKZ0124) to connect the Main P.C.B. (PP9902) and the Power supply P.C.B .(PS102).
2. Use the extension cable (RFKZ0126) to connect the DVD-RAM

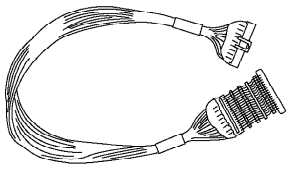
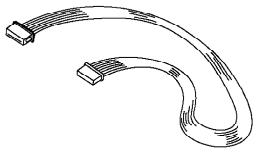
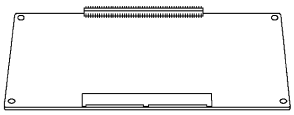
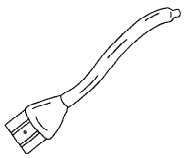
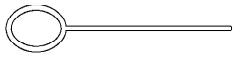
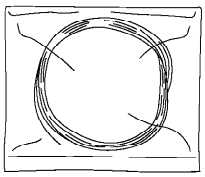
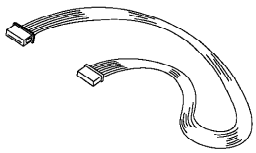
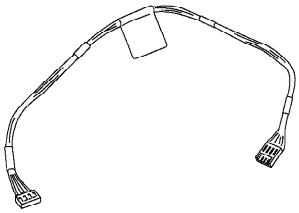
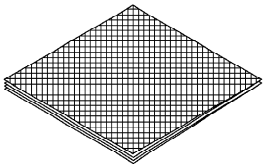
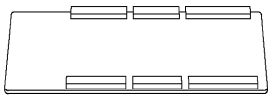
drive (PP9902) and the Power supply P.C.B (PS104).

3. **Use the extension cable (RFKZ0125) to connect the DVD-RAM drive and the Digital P.C.B. (P3401).**
4. **Insert the FAN short connector (RFKZ0128) into the connector (P7503) on the Main P.C.B.**
5. **Insert the extension cable between Main P.C.B. and PC card P.C.B. to the connector (P9901) of the Main P.C.B.**
6. **Connect HDD and PC card P.C.B. Follow SVC P2 for installation.**

Service tools	
Power supply P.C.B.-Main P.C.B. extension cable	RFKZ0124(23-pin)
RAM drive-Digital P.C.B. extension cable	RFKZ0125(40-pin)
RAM drive-Power supply P.C.B. extension cable	RFKZ0126(4-pin)
Digital extension P.C.B.	RFKZ0127
FAN short connector	RFKZ0128(3-pin)
Main P.C.B.-PC Card P.C.B. extension cable	RFKZ0142(5-pin)
Rubber mat	RFKZ0144
HDD-Power supply P.C.B. extension cable	VFK1675 (4-pin)



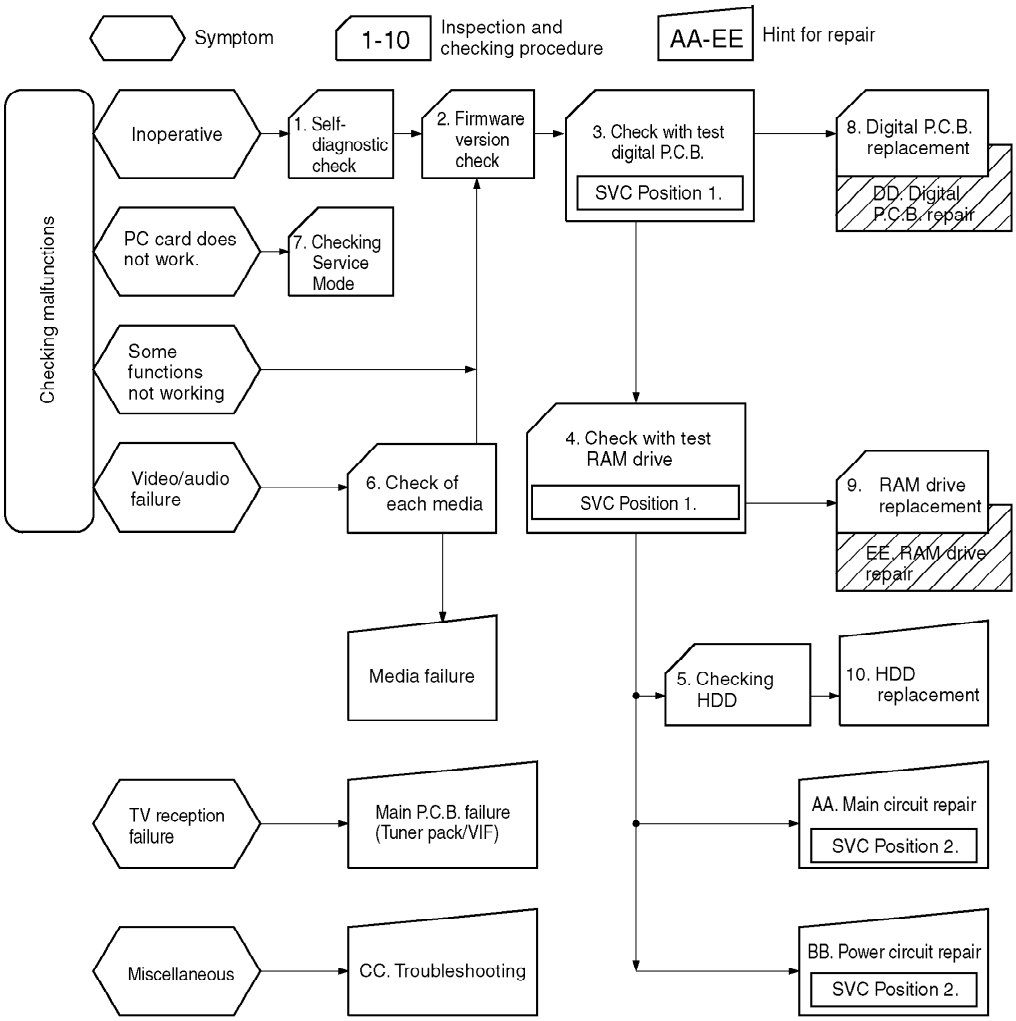
10.5. Service tools

Power supply P.C.B. - Main P.C.B. extension cable (23-pin)  RFKZ0124	RAM drive- Digital P.C.B. extension cable (40-pin) RFKZ0125	RAM drive- Power supply P.C.B. extension cable (4-pin)  RFKZ0126
Digital extension P.C.B.  RFKZ0127	FAN short connector (3-pin)  RFKZ0128	Eject pin  JZS0484
Pb free solder  VUA7090A03E (0.3 mm × 3 m) VUA7090A06E (0.6 mm × 3 m)	Main P.C.B. - PC Card P.C.B. extension cable (5-pin)  RFKZ0142	HDD - Power supply P.C.B. extension cable (4-pin)  VFKZ1675
Rubber mat  RFKZ0144	RGB extension P.C.B.  RFKZ0146	

11. Repair and checking procedures

11.1. Flow chart

See 11.2 for details of inspection and checking procedures 1 to 10 appearing in the chart below.
See 11.3 for details of hints for repairs AA to EE appearing in the chart below.



Note 1 : After the display is shifted to the SVC mode and the mode is closed, the timer display might show 「— — : — —」. In such a case, carry out the following operation to have the normal timer display indicated.

Set the items of the "installation" of the "initial setting" and the "auto clock channel" of the "time setting" to auto.

Note 2 : When pressing the keys simultaneously, hold them for 5 to 10 seconds.

11.2. Inspection and checking procedures

1. Checking self-diagnosis function

1. Presence of error code on display (Serviceable on user site)

Display	Cause	Countermeasure	Judgment
U11	Stained or damaged disc / Incompatible disc	Load another disc.	<NG> Drive failure, or digital P.C.B. (RT circuit) failure <OK> Disc failure
U12	Remote control and main unit code are not matched.	Switch the setting by "remote control mode" in initial setting.	
U14	Inner temperature is abnormally high.	The unit cannot be operated for approx. 30 minutes. Normal operation is restored when temperature comes down.	a. Check whether cooling fan is l or not. b. Room temperature is abnorma
U99	System stack	Turn off main unit power, and then turn it on again. If there is no change, keep pressing the power switch for 10 seconds.	

2. Checking other error codes

<Procedure>

A. Enter the service mode.

- While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.

B. View the error code.

- Set [DVD/TV] switch on remote control to DVD.
- Press the channel key [0] [1] on remote control. (Error code is kept displayed until pressing any key.)

C. Meanings

Display	Cause	Countermeasure	Judgment
H01	Stationary fan motor	Power check	----
		Mother P.C.B. check	
F00	No error information (Initial setting)	---	No error could be detected with s diagnosis function.
F01	Drive hardware error	Replacement of drive unit	
F12	Communication error between timer processor (main P.C.B.) and main processor (digital P.C.B.)	Go to the inspection and checking procedure 3.	

D. Exit the service mode.

- Turn off the power with remote control power switch.

2. Checking firmware version

1. Firmware is subject to regular updating for performance enhancement.
Check if the symptom at user can be solved with firmware updating. If yes, update the firmware.
<Firmware version check procedure>
A. Enter the service mode.

- While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously. “SERVICE MODE” will be displayed on FIP.

B. Check firmware version on FL display.

- Set [DVD/TV] switch on remote controller to DVD.
- Press the channel key [0] [2] on remote controller. (If you want the display reappear, press the key [5] again.)

FL display	Countermeasure
Region (*)	Unable to modify
MAIN xxx	Modify with updating disc if necessary.
TIMER xxx	Unable to modify (IC must be replaced to make modification.)
DRIVE xxx	Modify with updating disc if necessary.
ROM xxx	Unable to modify

(*): Region Number
E30EB/EB1/EG/EG1: 2
E30GN: 4
*** Firmware is automatically updated when CD-R firmware disc is loaded.**

3. Digital P.C.B. check

1. **If operation becomes normal after replacement with test P.C.B., it means digital P.C.B. failure.**
2. **If operation does not become normal after replacement with test P.C.B., follow the next step.**

4. RAM Drive unit check

1. **If operation becomes normal after replacement with test RAM drive unit, it means drive unit failure.**
2. **If operation does not become normal after replacement, it means mother P.C.B. failure.**

5. Checking HDD

1. **Replace the test HDD unit. If the operation becomes normal, HDD is defective.**
2. **If the operation is not normal even after replacement of the test HDD, Power supply P.C.B. is defective.**

6. Check of each media

1. Play DVD video.

2. Record/play of RAM disc from TV channel and L1 input

3. Play music CD.

7. Checking service mode (with PC card)

READ test

1. While the power is off, insert the PC card containing the image into the card slot.

2. Enter the service mode.
[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

3. By pressing [7] and [2] keys, the image appears on the monitor screen.

4. If the image does not appear, check the supplied voltage and PC card P.C.B.

WRITE test

1. While the power is off, insert the PC card containing the image into the card slot.

2. Enter the service mode.
[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

3. By pressing [7] and [1] keys, the following display appears.

4. If the display does not appear, check the supplied voltage and PC card P.C.B.

Caution:

End off WRITE test the image written into the media is deleted.

8. Digital P.C.B. replacement

a. No adjustment is needed.

b. Check performance of each media.

9. RAM drive replacement

1. When the unit does not operate normally after replacement with a new RAM drive

A. While power is off, press Skip(R), [Pause], [Open/Close] keys simultaneously.
(Digital P.C.B. sends out the region code to RAM drive.)
Display

B. Turn off the power after a few seconds, and then turn it on again to resume normal operation.

Caution: In this case, all settings are initialized.

10. HDD replacement

11.3. Hint for repair

AA. Main circuit repair

1. Separation of video and audio systems

- Using internal oscillation of video signal (white/magenta signal)

1. Enter the service mode. / [Service mode: While power is

off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

2. Set [DVD/TV] switch on remote controller to DVD.

3. When [1] [1] key is pressed, digital P.C.B. produces white picture and chroma 100% signal output.

4. When [1] [2] key is pressed, digital P.C.B. produces magenta /chroma 100% signal output.

- Using internal oscillation of audio signal

1. Enter the service mode. / [Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

When [4] [8] key is pressed, digital P.C.B. produces 1kHz±0dB (AC3/5.1ch sine wave) signal.

- Using video select with AV4 input.

1. Enter the service mode.

[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

2. Set [DVD/TV] switch on remote controller to DVD.

3. Input Video signal to AV4 in.

4. When the channel key [8][0] is pressed, video signal should output on AV1 (RGB).

- Using video select with AV2 input

1. Enter the service mode.

[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

2. Set [DVD/TV] switch on remote controller to DVD.

3. Input Video signal (Video,Y/C and RGB) to AV2 in.

4. When the channel key [8][1] is pressed, video signal should output on AV1 (Video).

5. When the channel key [8][2] is pressed, video signal should output on AV1 (Y/C).

6. When the channel key [8][3] is pressed, video signal should output on AV1 (RGB).

- Using P50 (Q-Link) control

1. Enter the service mode.

[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

2. Set [DVD/TV] switch on remote controller to DVD.
3. When the channel key [8][4] is pressed, 10pin of AV1 will be about 5V.
4. When the channel key [8][5] is pressed, 10pin of AV1 will be about 0V.

2. Separation of REC, PLAY and EE systems

- Check PLAY system and REC system circuits in EE2 mode. (EE2 mode: L1 input signal passes the same circuit as REC system and PLAY system except for RAM drive.)
1. Enter the service mode. / [Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]
2. Set [DVD/TV] switch on remote controller to DVD.
3. When the channel key [1] [3] is pressed, the unit enters REC/ PLAY system in XP mode.

3. When unit is inoperative

Checking timer microprocessor circuit
When timer microprocessor was replaced, the following level meter adjustment is required and “Resorting Factory Setting” is required.

<Adjustment procedure>
1. Give 1Khz/-6dBV input to "L", "R" and audio input terminals of AV1.
2. Enter the service mode.
[While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]
3. Set [DVD/TV] switch on remote controller to DVD, and press the channel key [8] [9].
4. [ADJUST] and [MTR] displays appear, and the adjustment is done automatically.
5. End the adjustment by turning the power off.

4. Display tube partly not illuminated

1. Enter the service mode. / [Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]
2. Set [DVD/TV] switch on remote controller to DVD, and press the channel key [5] [1].
3. All segment LEDs light up.
4. If all light up, display tube and LED are normal.
5. Turn the power off, or press the channel key [0] [0].

Last procedure

a. Resorting factory setting

When timer memory or digital P.C.B. is replaced, the data in each memory is altered.

In this case, restore the factory setting after repair.

1. Enter the service mode. / [Service mode: While power is off, press [Pause], [Open/ Close]and [Stop] keys simultaneously.]

2. Set [DVD/TV] switch on remote controller to DVD, and press the channel key [9] [9].

3. Turn the power off, or press the channel key [0] [0].

b. Aging

After the repair with unstable factors, perform aging.

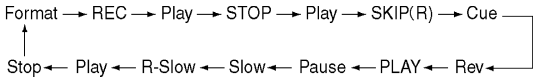
Use the following service mode for aging.

1. Load on the tray a RAM disc that has at least one program recorded.

2. Set at LP or EP in REC mode.

3. Press [Pause], [Open/Close] and [CH Down] keys simultaneously for about 15 seconds.

4. Sequential operation. (endless)



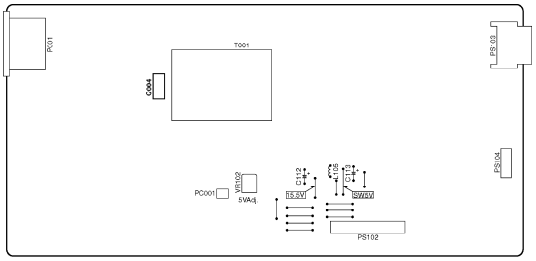
5. Turn off power stop.

BB. Power circuit repair

Adjustment Procedures

1. When the T001, the Q004 or the DI04 is replaced, adjust the "SW 5V measuring point" in the VR102 to the value between 5.12 and 5.15 V.

Condition: The BS power supply should be turned on at the initial setting.



CC. Troubleshooting

1. When viewer restriction ID is forgotten.

While the tray is open, press [Skip(R)] and [Skip(L)] keys

simultaneously.

2. **When shop demo lock remains on.**
   While the unit is in stop, press [Stop] and [Power] keys simultaneously.
3. **In the case of deck stack.**
   Keep pressing the power switch for about 10 seconds.

DD. Digital P.C.B. repair

1. **Refer to operation instruction for Serial card.**

EE. RAM drive repair

1. **Refer to service manual for VXY1748.**

Caution:

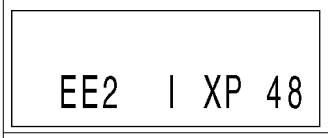
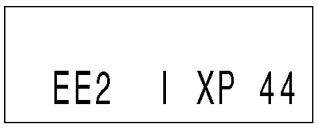
RGB P.C.B. have some variable resistor & capasitor.
However, do not touch these VR & VC.

11.4. Special modes at a glance

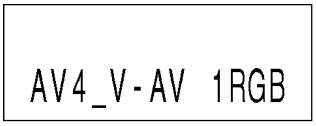
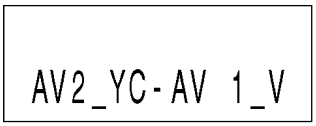
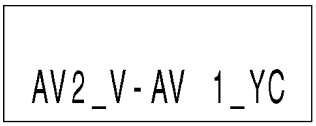
(1) Mode list

To reset the all items to the initial condition in the service mode, press the return key.

Item			FL display	Key operation	
Mode	Mode name	Description		Main unit Key	Re cont
Service mode	1. Service mode	The mode is used in servicing.	SERVICE MODE	[PAUSE] + [OPEN/CLOSE] + [STOP] while power is off	
	2. Clear item	Items 1-28 are cleared.	SERVICE MODE	—	[0] [0 in se mode
	3. Error code display	FL display of the last error code held by timer	F00 FL display of the error code（U/H/F）	—	[0] [1 in se mode
	4. Error code initialization	Initialization of the last error code held by timer (Write in F00)	ERROR INIT	—	[9] [8 in se mode
	5. Main unit initialization	All parameters (including timer) are initiaized to the factory setting.	FACT INIT	—	[9] [9 in se mode
	6. ROM version display	Region code, main, timer and drive firmware versions are displayed on screen and FL tube.	REGION* MAIN ****** TIMER ****** DRIVE * *** ROM ****** * Version display	—	[0] [2 in se mode
	7. Illumination of all FL/LEDs	All FL and LEDs are lit up.	Illumination of all FL/LED's	—	[5] [1 in se mode

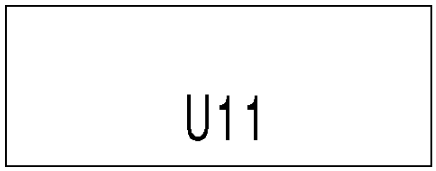
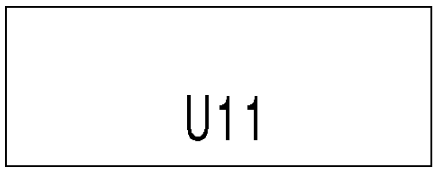
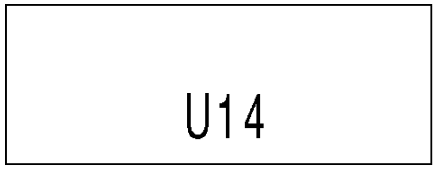
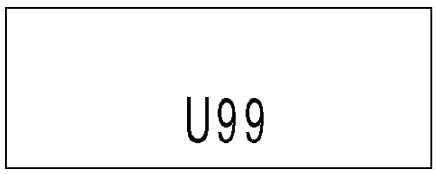
	8. RTSC return XP (A& V)	**Disc recording of L1 input Encoded and decoded for external output without playback. REC mode is XP.**	**Initialization mode (EE2/ Interlace/ XP/ Audio 48kHz)** 	**—**	**[1] [3 in se mode**
			Audio 44.1kHz/ 48kHz switch 	**—**	**[2] [4 in RT retur mode** ***48k 44.1k switc**

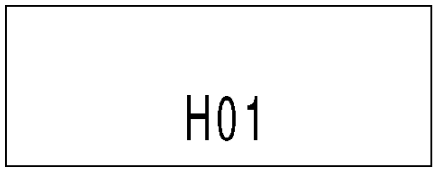
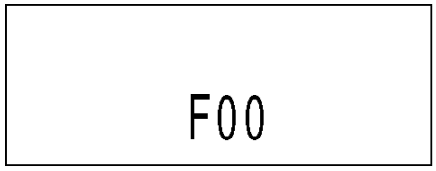
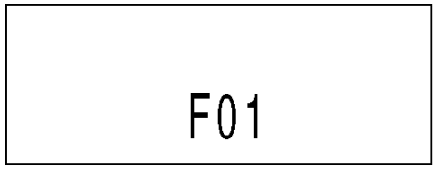
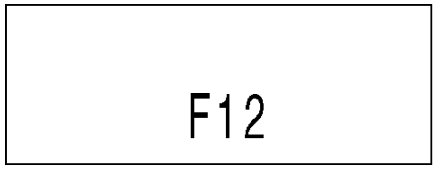
Item			FL display	Key operation	
Mode	Mode name	Description		Main unit Key	Re cont
Service mode	9. Audio Mute (XTMUTE)	To check if XTMUTE (mute from timer) works normally	TIMER MUTE	—	[2] [1 in se mode
	10. Audio Mute (XDMUTE)	XDMUTE To check if XDMUTE (mute from main) works normally	MAIN MUTE	—	[2] [2 in se mode
	11. PB8 HIGH signal output	8 pin of RGB output is high	PB8 HIGH	—	[5] [2 in se mode
	12. PB8 MIDDLE signal output	8 pin of RGB output is middle	PB8 MIDDLE	—	[5] [3 in se mode
	13. Laser use time display	To check laser use time of drive	LASER ✳ Time	—	[4] [1 in se mode
	14. White picture output	White picture output from AV decoder	Initialization mode (Interlace) WHIT I	—	[1] [1 in se mode
	15. Magenta picture output	Magenta picture output from AV decoder	Initialization mode (Interlace) MAGE I	—	[1] [2 in se mode
	16. Audio pattern output	Audio pattern output of internal memory 1KHz ± 0dB (AC3 5.1ch sine wave)	Initialization (Audio 48kHz) AUDIO 48	—	[2] [3 in se mode
			Audio 44.1kHz/ 48kHz switched AUDIO 44	—	[2] [4 in Au patte outpu *48k 44k T switc

	17. FACTORY MODE1	**Region setting is done for the drive at its replacement by starting up the process mode 1.** **Turn the power off (POWER key on main unit or remote controller) to end the FACT MODE1.**		**[SKIP(R)] + [PAUSE] + [OPEN/CLOSE] while power is off**	
	18. AV4-AV1 (RGB) SELECT	**Video signal at AV4 should output with AV1.**		**—**	**[8] [0 in se mode**
	19. AV2-AV1 (VIDEO)	**Video signal at AV2 should output with AV1.**		**—**	**[8] [1 in se mode**
	20. AV2-AV1 (Y/C)	**Video signal at AV2 should output with AV1.**		**—**	**[8] [2 in se mode**

Item			FL display	Key operation	
Mode	Mode name	Description		Main unit Key	Re cont
Service mode	21. AV2-AV1 (RGB)	Video signal at AV2 should output with AV1.	AV2RGB-AV 1_V	—	[8] [3 in se mode
	22. P50 (High)	10pin of AV1 should be High (5V)	SERVICE MODE	—	[8] [4 in se mode
	23. P50 (Low)	10pin of AV1 should be Low (0V)	SERVICE MODE	—	[8] [5 in se mode
	24. PC card READ check	Check READ function using the media with image and PC card.	CARD JPEG TEST * Image in the media appears.	—	Inser card, press [2] ke the s mode
	25.PC card WRITE check	Check WRITE function using the media and PC card.	CARD CARD SUCCESS Caution: The image written into the media is deleted.	—	Inser card, press [1] ke the s mode
	26. Tray OPEN/CLOSE	The RAM drive tray is opened and closed repeatedly.	CYCLE **** *FL display of the CYCLE count out.	—	[9] [1 in se mode *AC p shou turne relea opera
	27. RAM drive last error	Error codes for the RAM drive are displayed.	0000000 0000	—	[4] [2 in se mode
	28. Level Meter adjustment	To adjust level meter	ADJUSTMTR	—	[8] [9 in se mode

(2) U/H/F display

Display	Diagnosis	Description	FL display
U11	Media error	Display appears: a. When stained or damaged disc is detected b. When authentication process error is returned in FS and RTSC c. When incompatible disc is detected	 a. Displayed for 5 seconds unless the unit is in TIMER REC mode b. Display continues when the unit is in TIMER REC mode (untiluser presses power and open/close key)
		Display appears when broken disc information is detected.	 a. After displaying above for 5 seconds, power is turned off. b. When power is turned on next time, U11 is displayed for 5 secondsafter READ display.
1 CHK REMOTE	Remote control mode error	Display appears when main unit and remote controller modes are not matched.	
U14	Abnormal inner temperature detected	Display appears when the drive temperature exceeds 71Åé. Main unit is powered off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speedfor the first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.	 Displayed from the time of detection and while key entries are disabled after power-off (30 minutes).
U99	Hang-up	Displayed when microprocessor has hang-up.	 Remains displayed.

Display	Diagnosis	Description	FL display
H01	Inoperative fan motor	Display appears when inoperative fan motor is detected after powered on.	 Remains displayed.
F00	No error information	Initial setting for error code in memory (Initialization is possible with error code initialization and main unit initialization.)	 Remains displayed.
F01	Drive hardware error	Display appears when drive unit error is detected. The event is saved in memory.	 Remains displayed.
F12	Initialization error when main microprocessor is started up for program recording	Display appears when initialization error is detected after starting up main microprocessor for program recording. The event is saved in memory.	 Remains displayed.

12. Abbreviations

INITIAL/LOGO		ABBREVIATIONS
A	A0~UP	ADDRESS
	ACLK	AUDIO CLOCK
	AD0~UP	ADDRESS BUS
	ADATA	AUDIO PES PACKET DATA
	ALE	ADDRESS LATCH ENABLE
	AMUTE	AUDIO MUTE
	AREQ	AUDIO PES PACKET REQUEST
	ARF	
	ASI	AUDIO RF
	ASO	SERVO AMP INVERTED INPUT
	ASYNC	SERVO AMPOUTPUT
		AUDIO WORD DISTINCTION SYNC
B	BCK	BIT CLOCK (PCM)
	BCKIN	BIT CLOCK INPUT
	BDO	BLACK DROP OUT
	BLKCK	SUB CODE BLOCK CLOCK
	BOTTOM	CAP. FOR BOTTOM HOLD
	BYP	BYPATH
	BYTCK	BYTE CLOCK
C	CAV	CONSTANT ANGULAR
	CBDO	VELOCITY
	CD	CAP. BLACK DROP OUT
	CDSCK	COMPACT DISC
	CDSRDATA	CD SERIAL DATA CLOCK
		CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCKSELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	CPA	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPWR	CPU WRITE ENABLE
	CS	CHIPSELECT
	CSYNCIN	COMPOSITE SYNC IN
	CSYNCOUT	COMPOSITE SYNC OUT

INITIAL/LOGO		ABBREVIATIONS
D	DACCK	D/A CONVERTER CLOCK
	DEEMP	DEEMPHASIS BIT ON/OFF
	DEMPH	DEEMPHASIS SWITCHING
	DIG0~UP	FL DIGIT OUTPUT
	DIN	DATA INPUT
	DMSRCK	DM SERIAL DATA READ
	DMUTE	CLOCK
	DO	DIGITAL MUTE CONTROL
	DOUT0~UP	DROP OUT
		DATAOUTPUT
	DRF	DATA SLICE RF (BIAS)
	DRPOUT	DROP OUT SIGNAL
	DREQ	DATA REQUEST
	DRESP	DATA RESPONSE
	DSC	DIGITAL SERVO CONTROLLER
	DSLF	
	DVD	DATA SLICE LOOP FILTER
		DIGITAL VIDEO DISC

INITIAL/LOGO		ABBREVIATIONS
E	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL
		REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/
	ETSCLK	40.5MHz)
		EXTERNAL S CLOCK (54MHz)
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP
	FEO	INVERTED INPUT
	FG	FOCUS ERROR AMP OUTPUT
	FSC	FREQUENCY GENERATOR
	FSCK	FREQUENCY SUB CARRIER
		FS (384 OVER SAMPLING)
		CLOCK
G	GND	COMMON GROUNDING
		(EARTH)
H	HA0~UP	HOST ADDRESS
	HD0~UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE

INITIAL/LOGO		ABBREVIATIONS
I	IECOUT	IEC958 FORMAT DATA OUTPUT
	IPFRAG	INTERPOLATION FLAG
	IREF	I (CURRENT) REFERENCE
	ISEL	INTERFACE MODE SELECT
L	LDON	LASER DIODE CONTROL
	LPC	LASER POWER CONTROL
	LRCK	L CH/R CH DISTINCTION CLOCK
M	MA0~UP	MEMORY ADDRESS
	MCK	MEMORY CLOCK
	MCKI	MEMORY CLOCK INPUT
	MCLK	MEMORY SERIAL COMMAND CLOCK
	MDATA	MEMORY SERIAL COMMAND DATA
	MDQ0~UP	MEMORY DATA INPUT/OUTPUT
	MDQM	MEMORY DATA I/O MASK
	MLD	MEMORYSERIAL COMMAND LOAD
	MPEG	MOVING PICTURE EXPERTS GROUP
O	ODC	OPTICAL DISC CONTROLLER
	OFTR	OFF TRACKING
	OSCI	OSCILLATOR INPUT
	OSCO	OSCILLATOR OUTPUT
	OSD	ON SCREEN DISPLAY
P	P1~UP	PORT
	PCD	CD TRACKING PHASE DIFFERENCE
	PCK	PLL CLOCK
	PDVD	DVD TRACKING PHASE DIFFERENCE
	PEAK	CAP. FOR PEAK HOLD
	PLLCLK / PLLOK	CHANNEL PLL CLOCK PLL LOCK
	PWMCTL	PWM OUTPUT CONTROL
	PWMDA	PULSE WAVE MOTOR DRIVEA
	PWMOA, B	PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE
	RS	OUTPUT
	RSEL	(CD-ROM) REGISTER SELECT
	RST	RF POLARITY SELECT
	RSV	RESET
		RESERVE
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK
	SCL	RECEIVER
	SCLK	SERIAL CLOCK
	SDA	SERIAL CLOCK
	SEG0~UP	SERIAL DATA
	SELCLK	FL SEGMENT OUTPUT
	SEN	SELECTCLOCK
	SIN1, 2	SERIAL PORT ENABLE
	SOUT1, 2	SERIAL DATA IN
	SPDI	SERIAL DATA OUT
	SPDO	SERIAL PORT DATA INPUT
	SPEN	SERIAL PORT DATA OUTPUT
	SPRCLK	SERIAL PORT R/W ENABLE
	SPWCLK	SERIAL PORT READ CLOCK
	SQCK	SERIAL PORT WRITE CLOCK
	SQCX	SUB CODE Q CLOCK
	SRDATA	SUBCODE Q DATA READ
	SRMADR	CLOCK
	SRMDT0~7	SERIAL DATA
		SRAM ADDRESS BUS
	SS	SRAM DATA BUS 0~7
	STAT	START/STOP
	STCLK	STATUS
	STD0~UP	STREAM DATA CLOCK
	STENABLE	STREAM DATA
		STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY
	STVALID	SELECT
	SUBC	STREAM DATAVALIDITY
	SBCK	SUB CODE SERIAL
	SUBQ	SUB CODE CLOCK
	SYSCLK	SUB CODE Q DATA

	SYSCLK	SYSTEM CLOCK

INITIAL/LOGO		ABBREVIATIONS
T	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSSSIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INITIAL/LOGO		ABBREVIATIONS
V	VBLANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY VOLTAGE
	VCDCONT	VIDEO CD CONTROL (TRACKING BALANCE)
	VDD	DRAIN POWER SUPPLY VOLTAGE
	VFB	VIDEO FEED BACK
	VREF	VOLTAGE REFERENCE
	VSS	SOURCE POWER SUPPLYVOLTAGE
W	WAIT	BUS CYCLE WAIT
	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER

INITIAL/LOGO		ABBREVIATIONS
X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPTREQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIPSELECT
	XVDS	X V-DEC CONTROL BUS
	XVSYNCO	STROBE
		X VERTICAL SYNC OUTPUT

13. Voltage Chart

13.1. Power Supply P.C.B.

13.2. Main P.C.B.

13.3. RGB P.C.B.

13.4. Scart P.C.B.

13.5. Nicam/Decoder P.C.B.

13.6. P9001 Connector

13.7. P9001 Waveform

14. Block Diagram

14.1. Power Supply Block Diagram

14.1.1. Integrated Circuit Power Supply Chart

14.2. Analog Audio Block Diagram

14.3. Analog Video Block Diagram

14.4. Analog Timer Block Diagram

14.5. Digital Section Block Diagram

14.5.1. Digital Section Block Diagram (1)

14.5.2. Digital Section Block Diagram (2)

14.5.3. Digital Block IC Pin Terminal Chart (TC1-TC28)

15. Schematic Diagram

15.1. Interconnection Schematic Diagram

15.2. Power Supply Schematic Diagram (Power Supply P.C.B. (1/2))

15.3. Power Supply Schematic Diagram (Power Supply P.C.B. (2/2))

15.4. Main Net Section (Main P.C.B. (1/4)) Schematic Diagram (M)

15.5. Video I/O Section (Main P.C.B. (2/4)) Schematic Diagram (V)

15.6. Audio Main Section (Main P.C.B. (3/4)) Schematic Diagram (A)

15.7. Timer Section (Main P.C.B. (4/4)) Schematic Diagram (T)

15.8. Digital Net Section (Digital P.C.B. (1/7)) Schematic Diagram (DN)

15.9. AV-Encoder Section (Digital P.C.B. (2/7)) Schematic Diagram (EN)

15.10. AV-Decoder Section (Digital P.C.B. (3/7)) Schematic Diagram (AD)

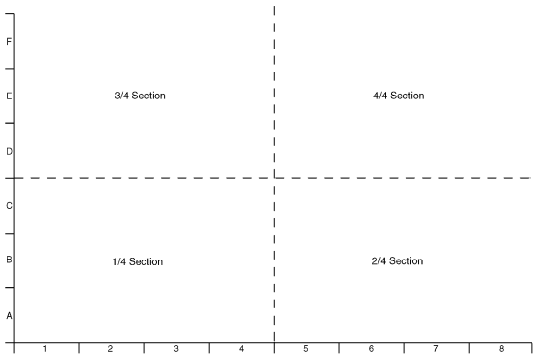
15.11. AV-Input Section (Digital P.C.B. (4/7)) Schematic Diagram (AI)

15.12. System Control Section (Digital P.C.B. (5/7)) Schematic Diagram (S)

15.13. Glue Section (Digital P.C.B. (6/7)) Schematic Diagram (G)

15.14. 1394 D/V Section (Digital P.C.B. (7/7)) Schematic Diagram (DV)

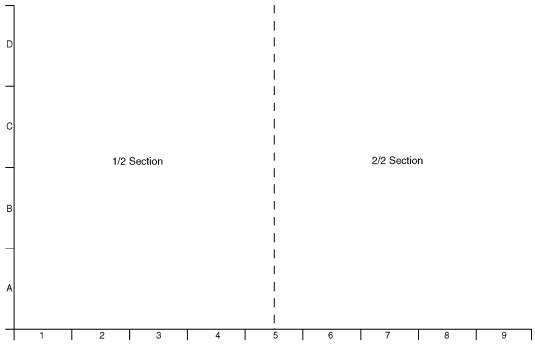
15.15. PC Card Schematic Diagram
15.16. ATAPI Schematic Diagram
15.17. RGB Schematic Diagram
15.18. Scart Schematic Diagram
15.19. VIF Decoder Schematic Diagram
15.20. Nicam/Decoder Schematic Diagram
15.21. Front (R) Schematic Diagram
15.22. Front (L) Schematic Diagram
15.23. DV Input Jack Schematic Diagram
15.24. Stick Schematic Diagram
16. Print Circuit Board
16.1. Power Supply P.C.B.
16.2. Main P.C.B. Location Map, Address Information
16.2.1. Main P.C.B. Location Map



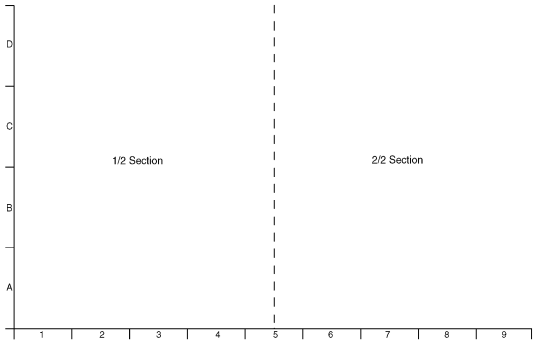
16.2.2. Main P.C.B. Address Information
16.3. Main P.C.B.
16.3.1. Main P.C.B. (1/4 Section)
16.3.2. Main P.C.B. (2/4 Section)
16.3.3. Main P.C.B. (3/4 Section)
16.3.4. Main P.C.B. (4/4 Section)

16.4. Digital P.C.B. Location Map, Address Information

16.4.1. Digital P.C.B. (Component Side) Location Map



16.4.2. Digital P.C.B. (Foil Side) Location Map



16.4.3. Digital P.C.B. Address Information

16.5. Digital P.C.B. (Component Side)

16.5.1. Digital P.C.B. (Component Side) 1/2 Section

16.5.2. Digital P.C.B. (Component Side) 2/2 Section

16.6. Digital P.C.B. (Foil Side)

16.6.1. Digital P.C.B. (Foil Side) 1/2 Section

16.6.2. Digital P.C.B. (Foil Side) 2/2 Section

16.7. RGB P.C.B.

16.8. Scart P.C.B. (Component Side)

16.9. Scart P.C.B. (Foil Side)

16.10. VIF Decoder P.C.B.

16.11. Nicam/Decoder P.C.B.

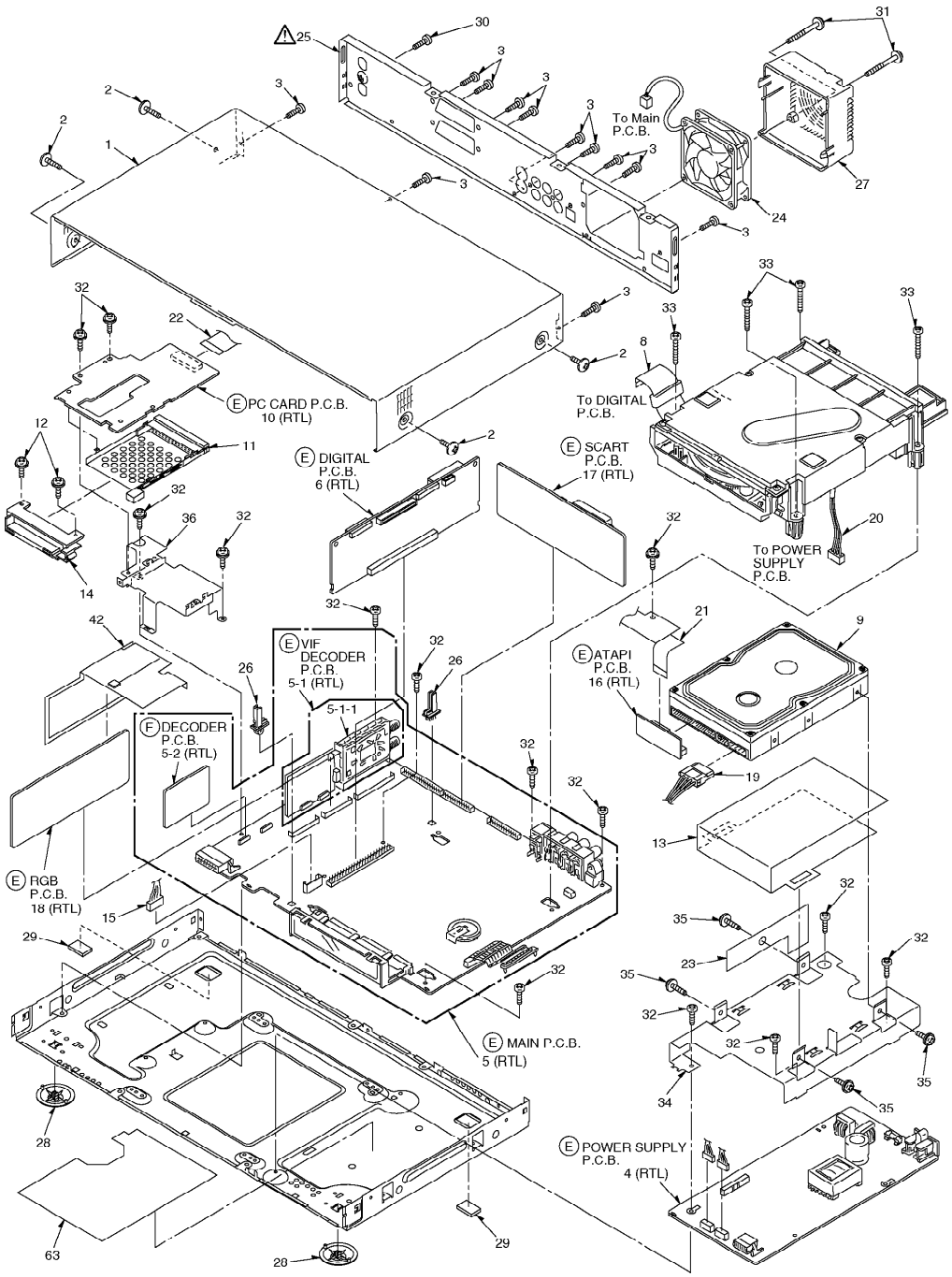
16.12. PC Card P.C.B.

16.13. DV Input Jack P.C.B. And ATAPI P.C.B.

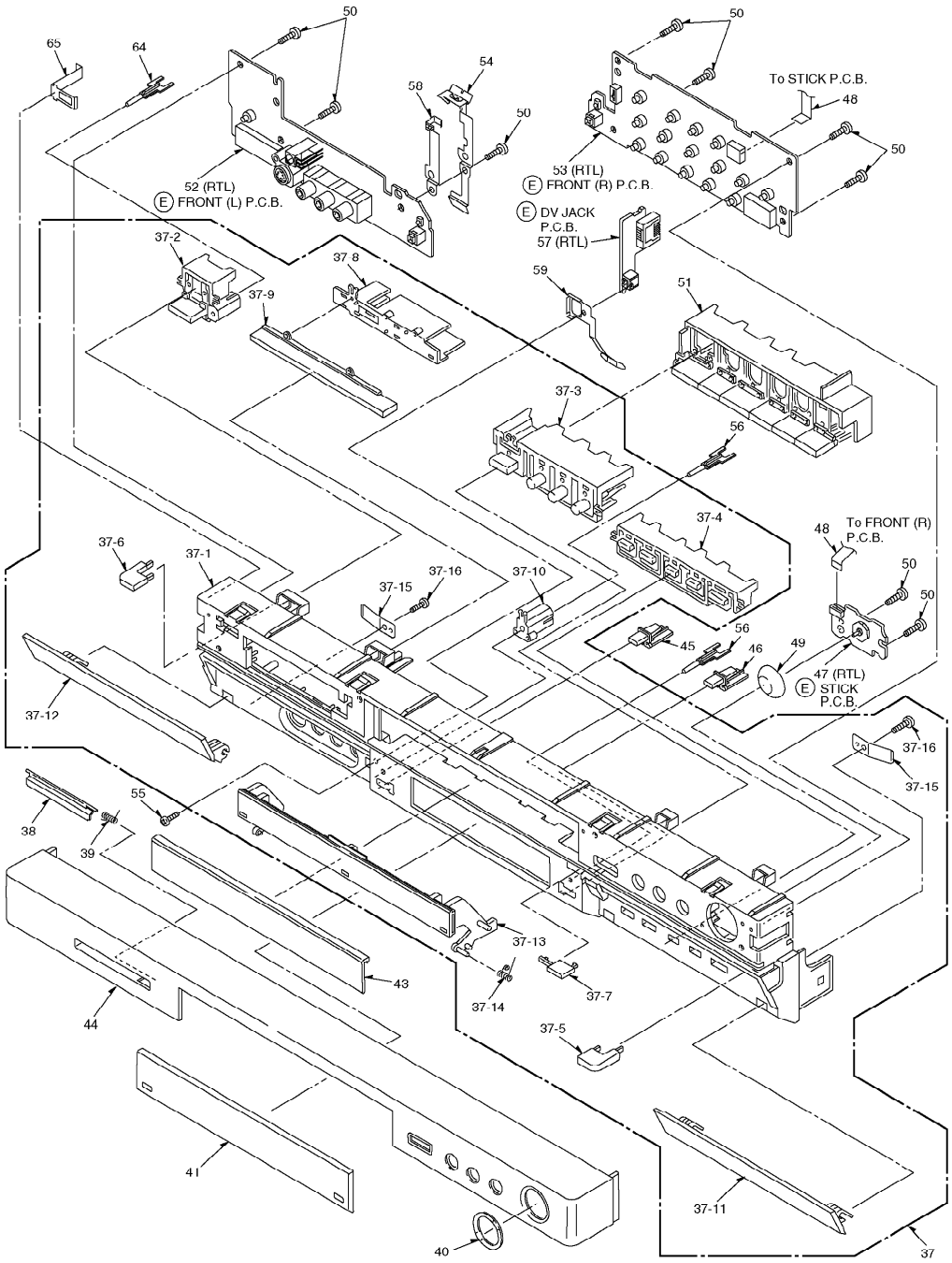
16.14. Front (R) P.C.B., Front (L) P.C.B. And Stick P.C.B.

17. EXPLODED VIEWS

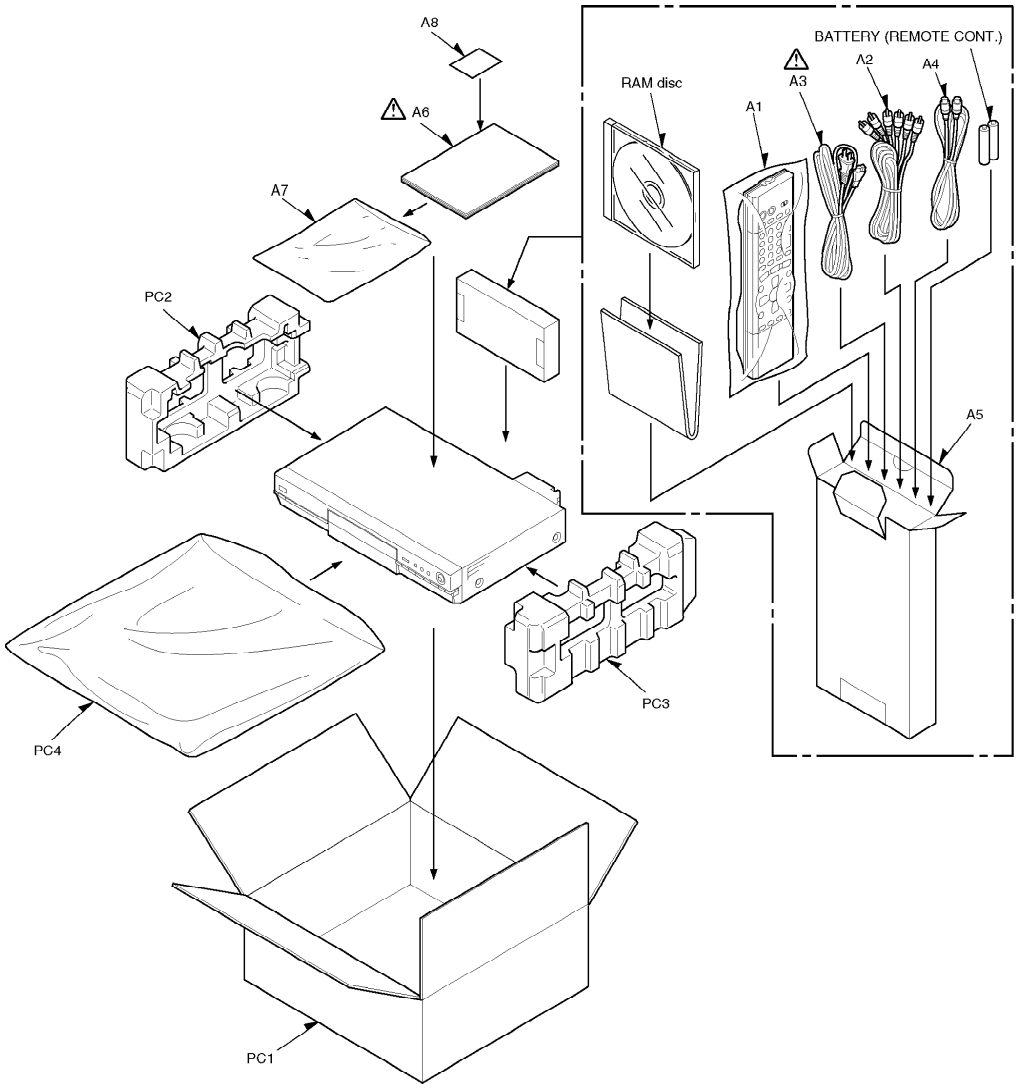
17.1. Casing Parts & Mechanism Section 1


To Main P.C.B.
To DIGITAL P.C.B.
To POWER SUPPLY P.C.B.
E PC CARD P.C.B. 10 (RTL)
E DIGITAL P.C.B. 6 (RTL)
E SCART P.C.B. 17 (RTL)
E VIF DECODER P.C.B. 5-1 (RTL)
5-1-1
F DECODER P.C.B. 5-2 (RTL)
E ATAPI P.C.B. 16 (RTL)
E RGB P.C.B. 18 (RTL)
E MAIN P.C.B. 5 (RTL)
E POWER SUPPLY P.C.B. 4 (RTL)

17.2. Casing Parts & Mechanism Section 2



17.3. Packing & Accessories Section



18. REPLACEMENT PARTS LIST

Notes:

***Important safety notice:**

Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

***When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.**

***Warning: This product uses a laser diode. Refer to caution statements.**

***ACHTUNG: Die lasereinheit nicht zerlegen. Die lasereinheit darf nur gegen enic vom hersteller spezifizierte einheit ausgetauscht werden.**

***Capacity values are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F= Farads (F).**

***Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).**

***The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.**

***"<IA>", "<IB>", marks in Remarks indicate languages of instruction manuals. [<IA>: English,**

<IB>: English/ Spanish, <IC>:German/ Italian, <ID>: French/ Netherlands]
***All parts are supplied by S.P.C..**

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	RKM0467-S	TOP COVER	1	
2	SNE2129-4	SCREW	4	
3	VHD0690	SCREW	12	
4	ETXMM387E4F	POWER SUPPLY P.C.B.	1	(RTL)
5	REP2577C	MAIN P.C.B.	1	(RTL)(EG)(GN)
5	REP2577D	MAIN P.C.B.	1	(RTL)(EB)
5-1	VEP07A23S	VIF DECODER P.C.B.	1	(RTL)(EG)(GN)
5-1	VEP07A23T	VIF DECODER P.C.B.	1	(RTL)(EB)
5-1-1	VMP5897	VIF ANGLE	1	
5-2	VEP07A51A	DECODER P.C.B.	1	
6	REP3391AC	DIGITAL P.C.B.	1	(RTL)(EG)
6	REP3391AE	DIGITAL P.C.B.	1	(RTL)(GN)
6	REP3391CE	DIGITAL P.C.B.	1	(RTL)(EB)
8	VEK9825	FFC(40P)	1	
9	N3CBBRB00012	HARD DISK DRIVE ASS'Y	1	
10	REP3369AA	PC CARD P.C.B.	1	(RTL)
11	VXA7512	PC CARD ANGLE	1	
12	XYN2+F6	SCREW	2	
13	RSC0673	HDD BARRIER	1	
14	RMR1481-K	PC CARD HOLDER	1	
15	VEK9904	WIRE WITH CONNECTOR(5P)	1	
16	REP3369AB	ATAPI P.C.B.	1	(RTL)
17	REP2578A	SCART P.C.B.	1	(RTL)
18	REP2579A	RGB P.C.B.	1	(RTL)
19	VEK9912	WIRE WITH CONNECTOR(4P)	1	
20	VEK9913	WIRE WITH CONNECTOR(4P)	1	
21	VEK9893	FFC(40P)	1	
22	VEK9903	FFC(50P)	1	
23	RMV0245	BARRIER	1	
24	L6FALECE0002	FAN MOTOR	1	
25	RGR0328C-C	REAR PANEL	1	(EG) ⚠
25	RGR0328C-D	REAR PANEL	1	(EB) ⚠
25	RGR0328C-H	REAR PANEL	1	(GN) ⚠
26	RMN0203	PCB HOLDER	2	
27	RMN0712	FAN COVER	1	
28	RYQ0402-K	LEG	2	
29	RKA0144-K	FOOT RUBBER	2	
30	XSN3+4FZ	SCREW	1	
31	XTN3+35JFZ	SCREW	2	
32	XTN3+6F-C	SCREW	13	
33	XTV3+25J	SCREW	4	
34	RMA1565	HDD ANGLE	1	
35	XSN6-32+48FY	SCREW	4	
36	RMA1589	PC CARD ANGLE	1	
37	RYP1142B-S	FRONT PANEL ASS'Y2	1	(EG)
37	RYP1142C-S	FRONT PANEL ASS'Y2	1	(EB)
37	RYP1142D-S	FRONT PANEL ASS'Y2	1	(GN)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
37-1	RGP0933-S	FRONT PANEL	1	
37-2	RYQ0389A-S	POWER BUTTON ASS'Y	1	
37-3	RGU2139-S	OPEN BUTTON	1	
37-4	RGU2108-S	SKIP BUTTON	1	
37-5	RGU2111-Q	SIDE PIECE(R)	1	
37-6	RGU2112-Q	SIDE PIECE(L)	1	
37-7	RGU2113-Q	CENTER PIECE(R)	1	
37-8	RGU2114-S	CENTER PIECE(L)	1	
37-9	RGU2115A-Q	CENTER PIECE(L) TOP	1	
37-10	RMR1455-S	SHAFT HOLDER	1	
37-11	RKF0643F-S	DOOR(R)	1	(EG)
37-11	RKF0643G-S	DOOR(R)	1	(EB)
37-11	RKF0643J-S	DOOR(R)	1	(GN)
37-12	RKF0644C-S	DOOR(L)	1	
37-13	RKF0645-S	TRAY DOOR	1	
37-14	VMB3410	BLINDER SPRING	1	
37-15	RMC0489	DOOR SPRING	2	
37-16	XTBS26+8J	SCREW	2	
38	RKF0648-S	PC CARD BLINDER	1	
39	RMB0721	PC CARD BLINDER SPRING	1	
40	RGZ0052-Q	NAVI RING	1	
41	RGK1541-Q	FL ORNAMENT	1	
42	RSC0674	TUNER BARRIER	1	
43	RGK1528-S	TRAY ORNAMENT	1	
44	RGK1527A-S	FRONT ORNAMANT	1	
45	RGU2116-Q	HDD BUTTON	1	
46	RGU2117-Q	DVD BUTTON	1	
47	REP3386AC	STICK P.C.B.	1	(RTL)
48	VWJ1577	FFC(6P)	1	
49	RGK1530-S	NAVI BUTTON	1	
50	XTBS26+8J	SCREW	9	
51	RYQ0390A-S	CH BUTTON ASS'Y	1	
52	REP3386FA	FRONT(L) P.C.B.	1	(RTL)
53	REP3386BB	FRONT(R) P.C.B.	1	(RTL)
54	RMC0501	EARTH PLATE (A)	1	
55	XQN16+B4FN	SCREW	1	
56	RGL0600-Q	PANEL LIGHT	2	
57	REP3369AC	DV JACK P.C.B.	1	(RTL)
58	RMC0521	EARTH PLATE	1	
59	RMC0520	DV EARTH	1	
63	RMZ0660	BARRIER	1	⚠
64	RGL0599-Q	POWER INDICATOR	1	
65	RMC0491	EARTH SPRING	1	
A1	EUR7615KE0	REMOTE CONTROL ASS'Y	1	(EB)
A1	EUR7615KD0	REMOTE CONTROL ASS'Y	1	(EG)
A1	EUR7615KL0	REMOTE CONTROL ASS'Y	1	(GN)
A2	VJA0788	A/V CORD	1	K1EA06CA0002
A3	RJA0053-3X	AC CORD	1	(EB) ⚠
A3	VJA0754	AC CORD	1	K2CJ2DA00002 (GN) ⚠
A3	VJA1059	AC CORD	1	K2CQ2DA00001 (EG) ⚠
A4	VJA1089	RF COAXIAL CABLE	1	K1TWACC00001
A5	RPQF0238	ACCESSORY CASE	1	

A3	RFQ-0230	ACCESSORY CASE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A6	RQT6597-B	OPERATING INSTRUCTIONS	1	(EB)<IA> ⚠
A6	RQT6598-E	OPERATING INSTRUCTIONS	1	(EG)(GN)<IB> ⚠
A6	RQT6599-D	OPERATING INSTRUCTIONS	1	(EG)<IC> ⚠
A6	RQT6600-J	OPERATING INSTRUCTIONS	1	(EG)<ID> ⚠
A7	XZB25X34C03X	POLYETHYLENE BAG	1	
A8	RFE0088-1	CLEANING CLOTH	1	
B9901	CR2354-1GUF	LITHIUM BATTERY	1	
C001	KH101K	250V 100P	1	
C002	KH102M	1000P	1	
C003,04	ECQU2A224ML	275V 0.22	2	
C005,06	KH102M	1000P	2	
C007	KMM2W470JZ	450V 47	1	
C008,09	MBB105K1	16V 1U	2	
C010	MBC102J5	50V 1000P	1	
C012	MBC681J5	50V 680P	1	
C014	CD102M	1000P	1	
C015	MBB103K5	50V 0.01U	1	
C016	MBB224K1	16V 0.22U	1	
C017	YAB105K3	35V 1U	1	
C018	RR3AD102K	1KV 1000P	1	
C020	KY1V330Z	35V 33U	1	
C022	DE2SL470J	2KV 47P	1	
C023	KH101K	250V 100P	1	
C024	KH102M	1000P	1	
C102	KY1A122	10V 1200U	1	
C104	TBB105K1	16V 1U	1	
C105	KY1A681L	10V 680U	1	
C106	KMG1V470	35V 47U	1	
C107	MBC102J5	50V 1000P	1	
C108	KY1E221	25V 220U	1	
C109	KY1E331	25V 330U	1	
C110	MBC102J5	50V 1000P	1	
C111	ECQB1H102JF	50V 1000P	1	
C112	KMG1E470	25V 47U	1	
C113	KMG1C471	10V 470U	1	
C115	MBB104K2	25V 0.1U	1	
C116	ECQB1H333JF	50V 0.033U	1	
C117	MBB104K2	25V 0.1U	1	
C118	KY0J152	6.3V 1500U	1	
C119	KY0J102	6.3V 1000U	1	
C120	KY1A471	10V 470U	1	
C121	KMG1E470	25V 47U	1	
C123	KY1A471	10V 470U	1	
C124	KY1A221	10V 220U	1	
C125	TBB224K2	25V 0.22U	1	
C128	TBB105K1	16V 1U	1	
C129	KMG1V470	35V 47U	1	
C130	MBC101K2D	200V 100P	1	
C301,02	ECJ2VC1H102J	50V 1000P	2	
C303	YBB104K2	25V 0.1U	1	
C304	MBB103K5	50V 0.01U	1	

C804	MBB1063R3	50V 0.01U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C305	MBB333K5	50V 0.033U	1	
C306	MBB103K5	50V 0.01U	1	
C307,08	MBB105K1	16V 1U	2	
C309-12	YBB104K2	25V 0.1U	4	
C313,14	MBB105K1	16V 1U	2	
C315,16	YBB104K2	25V 0.1U	2	
C0701	ECJ2VF1C105Z	16V 1U	1	
C0702	ECJ1VB1H102K	50V 1000P	1	
C0703	ECJ2YB1A105K	10V 1U	1	
C0704	ECJ2VB1E333K	25V 0.033U	1	
C0707	ECEA1HKS2R2	50V 2.2U	1	
C0708	ECEA1HKAR47B	50V 47U	1	
C0710	ECJ1VF1H103Z	50V 0.01U	1	
C0711	ECEA1CKS220	16V 22U	1	
C0712	ECJ1VF1C104Z	16V 0.1U	1	
C0713	ECEA0JKS331	6.3V 330U	1	
C0714	ECJ2VF1C105Z	16V 1U	1	
C0715	ECJ1VC1H030C	50V 3P	1	(EG)(GN)
C0715	ECJ1VC1H120J	50V 12P	1	(EB)
C0717	ECUM1H330GU	50V 33U	1	
C0719	ECUV1E104ZFV	25V 0.1U	1	F1H1E104A030
C0721	ECJ1VC1H121J	50V 120P	1	(EG)(GN)
C0721	ECUV1H820JCV	50V 82P	1	ECJ1VC1H820J (EB)
C0724	ECJ1VB1H221K	50V 220P	1	(EG)(GN)
C0724	ECUV1H331KBV	50V 330P	1	ECJ1VB1H331K (EB)
C3001	ECUV1A105KBN	10V 1U	1	F1J1C105A090
C3002	ECEA1HKS010	50V 1U	1	
C3003	ECJ1VB1H103K	50V 0.01U	1	
C3004	ECEA0JKS470	6.3V 47U	1	
C3005	ECJ1VB1C104K	16V 0.1U	1	
C3006	ECEA0JKN470B	6.3V 47U	1	
C3007	ECEA0JKS470	6.3V 47U	1	
C3008	ECJ1VB1H103K	50V 0.01U	1	
C3009	ECUV1A105KBN	10V 1U	1	F1J1C105A090
C3013-16	ECJ1VB1H103K	50V 0.01U	4	
C3017	ECEA0JKS470	6.3V 47U	1	
C3018-20	ECJ1VB1H103K	50V 0.01U	3	
C3021,22	ECEA1CKN100B	16V 10U	2	
C3031	ECEA1CKS100	16V 10U	1	
C3032	ECEA1HKS010	50V 1U	1	
C3033	ECJ1VB1H103K	50V 0.01U	1	
C3034	ECEA1HKS010	50V 1U	1	
C3035	ECUV1A105KBN	10V 1U	1	F1J1C105A090
C3036	ECJ1VB1H103K	50V 0.01U	1	
C3037	ECUV1A105KBN	10V 1U	1	F1J1C105A090
C3038	ECEA1HKS010	50V 1U	1	
C3039	ECJ1VB1H103K	50V 0.01U	1	
C3040	ECUV1A105KBN	10V 1U	1	F1J1C105A090
C3041	ECJ1VB1H103K	50V 0.01U	1	
C3042	ECEA0JKS470	6.3V 47U	1	
C3065	ECJ1VC1H470J	50V 47P	1	
C3066	ECUV1H471JCV	50V 470P	1	ECJ1VC1H471J
C3068	ECJ1VC1H470J	50V 47P	1	
C3069	ECUV1H471JCV	50V 470P	1	ECJ1VC1H471J

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3070	ECJ1VB1H103K	50V 0.01U	1	
C3071	ECJ1VB1C104K	16V 0.1U	1	
C3072	ECJ1VB1C103K	16V 0.01U	1	
C3201	ECJ1VB1H103K	50V 0.01U	1	
C3202	ECST0JC107R	6.3V 100U	1	
C3203	ECJ1VB1C104K	16V 0.1U	1	
C3204	ECJ1VB1H103K	50V 0.01U	1	
C3205	ECJ1VF1C104Z	16V 0.1U	1	
C3208	ECJ1VF1C104Z	16V 0.1U	1	
C3209	ECJ1VB1H103K	50V 0.01U	1	
C3210	EEVHB0J220R	6.3V 22U	1	
C3211	ECJ1VF1C104Z	16V 0.1U	1	
C3212	ECJ1VB1H103K	50V 0.01U	1	
C3213	EEVHB0J220R	6.3V 22U	1	
C3214,15	ECJ1VF1C104Z	16V 0.1U	2	
C3216	ECJ1VB1H103K	50V 0.01U	1	
C3217-26	ECJ1VB1C104K	16V 0.1U	10	
C3227	EEVHB0J101P	6.3V 100U	1	
C3228	ECJ1VC1H151J	50V 150P	1	
C3501-03	ECEA0JKS470	6.3V 47U	3	
C3504	ECJ1VB1H103K	50V 0.01U	1	
C3505-07	ECEA1HKS3R3	50V 3.3U	3	
C3508	ECUV1H271JCV	50V 270P	1	ECJ1VC1H271J
C3509,10	ECJ1VB1C104K	16V 0.1U	2	
C3511	ECJ1VC1H120J	50V 12P	1	
C3512	ECJ1VB1C104K	16V 0.1U	1	
C3513	ECEA0JKN470B	6.3V 47U	1	
C3514,15	ECJ1VB1C104K	16V 0.1U	2	
C3516	ECEA0JKS470	6.3V 47U	1	
C3518	ECEA1HKS010	50V 1U	1	
C3519	ECJ1VB1H103K	50V 0.01U	1	
C3520	ECEA1AKS221	10V 220U	1	
C3521	ECJ1VB1C104K	16V 0.1U	1	
C3523	ECEA0JKS470	6.3V 47U	1	
C3524	ECJ1VB1C104K	16V 0.1U	1	
C3526	ECEA0JKN470B	6.3V 47U	1	
C3528-30	ECJ1VB1H103K	50V 0.01U	3	
C3531	ECEA0JKS470	6.3V 47U	1	
C3532	ECJ1VB1H103K	50V 0.01U	1	
C3533	ECA0JM221B	6.3V 220U	1	
C3534	ECEA1CKS220	16V 22U	1	
C3535	ECA0JM221B	6.3V 220U	1	
C3536	ECEA1CKS220	16V 22U	1	
C3537	ECA0JM221B	6.3V 220U	1	
C3538	ECEA1CKS220	16V 22U	1	
C3543	ECJ1VB1C104K	16V 0.1U	1	
C3544,45	ECEA0JKN470B	6.3V 47U	2	
C3546	ECEA1AKS221	10V 220U	1	
C3547	ECJ1VB1C104K	16V 0.1U	1	
C3548-50	ECEA0JKN470B	6.3V 47U	3	
C3551	ECJ1VB1C104K	16V 0.1U	1	
C3552	ECEA0JKN470B	6.3V 47U	1	
C3553	ECJ1VC1H560J	50V 56P	1	
C3554	ECJ1VB1C104K	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3555	ECEA1HSN010	50V 1U	1	
C3556	ECEA0JKS470	6.3V 47U	1	
C3557	ECJ1VB1H103K	50V 0.01U	1	
C3563	ECA0JM102	6.3V 1000U	1	
C3564	ECEA0JKS101	6.3V 100U	1	
C3565	ECJ1VB1C104K	16V 0.1U	1	
C3566	ECJ1VC1H560J	50V 56P	1	
C3567	ECA0JM102	6.3V 1000U	1	
C3568	ECEA0JKS101	6.3V 100U	1	
C3575	ECEA1HKS3R3	50V 3.3U	1	
C3576	ECEA1CKS100	16V 10U	1	
C3578	ECJ1VB1C104K	16V 0.1U	1	
C3910,11	ECA1CAK100XB	16V 10U	2	
C3912-17	ECA1HAK010XI	50V 1U	6	
C3918,19	ECA1CAK100XB	16V 10U	2	
C3920	ECJ1VB1C104K	16V 0.1U	1	
C3921	ECA0JAK331X	6.3V 330U	1	
C3922	ECJ1VB1H103K	50V 0.01U	1	
C3923	ECJ1VB1C104K	16V 0.1U	1	
C3924	ECA0JAK331X	6.3V 330U	1	
C3925	ECJ1VB1H103K	50V 0.01U	1	
C3928,29	ECA1HAK010XI	50V 1U	2	
C3930	ECJ1VB1H103K	50V 0.01U	1	
C3931,32	ECA1HAK010XI	50V 1U	2	
C3933	ECEA1HKS010	50V 1U	1	
C3934	ECJ1VB1H103K	50V 0.01U	1	
C3935	ECA1CAK470XB	16V 47U	1	
C3936,37	ECEA1HSN010	50V 1U	2	
C3938,39	ECJ1VB1H103K	50V 0.01U	2	
C3940	ECA0JAK221XH	6.3V 220U	1	
C3941	ECJ1VB1H103K	50V 0.01U	1	
C3951,52	ECJ1VC1H470J	50V 47P	2	
C3953,54	ECUV1H471JCV	50V 470P	2	ECJ1VC1H471J
C3955,56	ECJ1VC1H101J	50V 100P	2	
C3957,58	ECUV1H471JCV	50V 470P	2	ECJ1VC1H471J
C3959,60	ECJ1VC1H470J	50V 47P	2	
C3961,62	ECJ1VC1H101J	50V 100P	2	
C3963	ECJ1VB1H103K	50V 0.01U	1	
C4001	ECJ1VB1C104K	16V 0.1U	1	
C4004	ECA1CAK470XB	16V 47U	1	
C4005	F2A1C221A243	16V 220U	1	
C4008	ECA0JAK470XH	6.3V 47U	1	
C4010	ECUV1C683KBV	16V 0.068U	1	ECJ1VB1C683K
C4012	ECA1HAK2R2XB	50V 2.2U	1	
C4013,14	F2A1C100A019	16V 10U	2	
C4015	ECJ1VF1C104Z	16V 0.1U	1	
C4017,18	ECEA1CKS100	16V 10U	2	
C4019,20	ECJ1VC1H330J	50V 33P	2	
C4022,23	ECJ1VF1C104Z	16V 0.1U	2	
C4024	ECJ1VB1C104K	16V 0.1U	1	
C4025	F2A1C221A243	16V 220U	1	
C4026	ECJ1VF1C104Z	16V 0.1U	1	
C4027	ECA1HAK2R2XB	50V 2.2U	1	
C4029	ECA1CPX221B	16V 220U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4030	ECJ1VF1C104Z	16V 0.1U	1	
C4031,32	ECEA1CKN100B	16V 10U	2	
C4033,34	F2A1C4700011	16V 47U	2	
C4037-42	ECA1CAK100XB	16V 10U	6	
C4043	ECJ1VF1C104Z	16V 0.1U	1	
C4044	ECA1CPX221B	16V 220U	1	
C4047,48	ECUV1H102KBN	50V 1000P	2	ECJ2VB1H102K
C4052	ECJ1VF1C104Z	16V 0.1U	1	
C4053	ECJ1VB1C104K	16V 0.1U	1	
C4054	F2A0J470A179	6.3V 47U	1	
C4055	ECJ1VF1C104Z	16V 0.1U	1	
C4056	ECA1CPX221B	16V 220U	1	
C4057	ECJ2VC1H101J	50V 100U	1	
C4058,59	ECJ1VF1C104Z	16V 0.1U	2	
C4060	ECJ2VC1H101J	50V 100U	1	
C4061	ECJ1VF1C104Z	16V 0.1U	1	
C4062	F2A1C221A243	16V 220U	1	
C4063,64	F2A1C4700011	16V 47U	2	
C4065	ECJ1VF1C104Z	16V 0.1U	1	
C4067	F2A0J470A179	6.3V 47U	1	
C4068,69	ECJ1VF1C104Z	16V 0.1U	2	
C4070	F2A1C221A243	16V 220U	1	
C4072	ECA1CAK101XB	16V 100U	1	
C4074	ECJ1VF1C104Z	16V 0.1U	1	
C4076-78	ECJ1VF1C104Z	16V 0.1U	3	
C4079,80	ECJ1VC1H100C	50V 10P	2	
C4082,83	ECUV1H102KBN	50V 1000P	2	ECJ2VB1H102K
C4088	ECUV1C683KBV	16V 0.068U	1	ECJ1VB1C683K
C4089	F2A1C221A243	16V 220U	1	
C4090	ECJ1VB1C104K	16V 0.1U	1	
C4091	ECJ1VF1C104Z	16V 0.1U	1	
C4401	ECJ1VF1C104Z	16V 0.1U	1	
C4403	ECJ1VF1C104Z	16V 0.1U	1	
C4404	F2G0J331A015	6.3V 330U	1	
C4407,08	EEVHB1C100R	16V 10U	2	
C4410	EEVHB0J220R	6.3V 22U	1	
C4411	ECJ1VF1C104Z	16V 0.1U	1	
C4412	EEVHB0J101P	6.3V 100U	1	
C4413	EEVHB1E4R7R	25V 4.7U	1	
C4414	ECST1AY106R	10V 10U	1	
C4415-17	ECJ1VF1C104Z	16V 0.1U	3	
C4420-25	ECJ1VB1H102K	50V 1000P	6	
C4502	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C4503	ECA1CAK470XB	16V 47U	1	(EB)
C4504	ECA1CAK100XB	16V 10U	1	(EB)
C4505	ECJ1VB1H222K	50V 2200P	1	(EB)
C4506	ECA1CAK100XB	16V 10U	1	(EB)
C4507	ECUM1H222KBN	50V 2200P	1	(EB)
C4508	ECA1CAK100XB	16V 10U	1	(EB)
C4509	ECJ1VC1H560J	50V 56P	1	(EB)
C4510,11	ECA1CAK100XB	16V 10U	2	(EB)
C4512	ECEA1CKN100B	16V 10U	1	(EB)
C4513	ECA1HAKR22XB	50V 22U	1	(EB)
C4514	ECJ1VC1H560J	50V 56P	1	(EB)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4515	ECJ1VC1H102J	50V 1000P	1	(EB)
C6003	ECUV1H010CCV	50V 1P	1	ECJ1VC1H010C
C6004	ECJ1VC1H470J	50V 47P	1	
C6701,02	ECJ1VB1C104K	16V 0.1U	2	
C6703	ECJ1VF1C104Z	16V 0.1U	1	
C6801-03	ECJ1VB1C103K	16V 0.01U	3	
C6804	ECJ1VB1C104K	16V 0.1U	1	
C6805	ECEA0JKS101	6.3V 100U	1	
C6806	ECJ1VB1C104K	16V 0.1U	1	
C6807	ECEA0JKS101	6.3V 100U	1	
C6808,09	ECEA0JKS470	6.3V 47U	2	
C6811	ECJ1VB1C104K	16V 0.1U	1	
C6812	ECJ1VB1C103K	16V 0.01U	1	
C7003	ECJ1VB1C104K	16V 0.1U	1	
C7005,06	ECJ1VC1H101J	50V 100P	2	
C7010	ERJ3GEY0R00V	1/16W 0	1	
C7012	ECJ1VF1A105Z	10V 1U	1	
C7301	ECJ1VF1C104Z	16V 0.1U	1	
C7302	ERJ3GEY0R00V	1/16W 0	1	
C7303	ECEA0JKS101	6.3V 100U	1	
C7305	ECEA0JKS101	6.3V 100U	1	
C7306	ECJ1VF1H103Z	50V 0.01U	1	
C7307,08	ECUV1H100DCV	50V 10U	2	ECJ1VC1H100D
C7309-11	ECJ1VC1H101J	50V 100P	3	
C7312,13	ECEA1CKS100	16V 10U	2	
C7314	ECJ1VF1C104Z	16V 0.1U	1	
C7317	ECEA1CKA470	16V 47U	1	
C7318	ECEA1CKS100	16V 10U	1	
C7323	ECJ1VC1H102J	50V 1000P	1	
C7324	ECJ1VF1C104Z	16V 0.1U	1	
C7329	ERJ3GEY0R00V	1/16W 0	1	
C7330	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002
C7332	ECJ1VF1C104Z	16V 0.1U	1	
C7333	ECJ1VB1C104K	16V 0.1U	1	
C7334	ECEA1HKS2R2	50V 2.2U	1	
C7335	ECJ1VF1C104Z	16V 0.1U	1	
C7501-09	ECJ1VC1H151J	50V 150P	9	
C7512	ECJ1VF1A105Z	10V 1U	1	
C7513	ECJ1VB1C104K	16V 0.1U	1	
C7515	ECJ1VF1A105Z	10V 1U	1	
C7516	ECJ1VC1H101J	50V 100P	1	
C7517	F2A1V220A174	35V 22U	1	
C7518	ECJ1VB1C104K	16V 0.1U	1	
C7521	F2A1C221A019	16V 220U	1	
C7522	ECJ1VB1C104K	16V 0.1U	1	
C7523	ECQB1H473JF3	50V 0.047U	1	
C7524	ECJ1VB1H103K	50V 0.01U	1	
C7525	F2A0J221A016	6.3V 220U	1	
C7526	VCEA1VCB100	35V 10U	1	F2A1V1000013
C7527	ECQB1H223KF3	50V 0.022U	1	
C7528	F2A1H100A218	50V 10U	1	
C7529	F2A1V220A174	35V 22U	1	
C7531	ECEA1EKN4R7B	25V 4.7U	1	
C7533	ECJ1VC1H101J	50V 100P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7534	ECEA1EKN4R7B	25V 4.7U	1	
C7535	ECJ1VB1C104K	16V 0.1U	1	
C7536	ECEA0JKS101	6.3V 100U	1	
C7537	ECJ1VF1C104Z	16V 0.1U	1	
C7538	ECJ1VB1C104K	16V 0.1U	1	
C7539	ECUV1H200JCV	50V 20P	1	ECJ1VC1H200J
C7540	ECJ1VC1H151J	50V 150P	1	
C7541	ECJ1VC1H101J	50V 100P	1	
C7543	F2A1A4700016	10V 47U	1	
C7544,45	ECJ1VF1C104Z	16V 0.1U	2	
C7546,47	ECJ1VB1H103K	50V 0.01U	2	
C7548,49	ECJ1VC1H100C	50V 10P	2	
C7551,52	ECUV1H221JCV	50V 220P	2	ECJ1VC1H221J
C7553	ECJ1VC1H101J	50V 100P	1	
C7554	ECJ1VC1H220J	50V 22P	1	
C7555	ECJ1VC1H270J	50V 27P	1	
C7556	ECJ1VC1H150J	50V 15P	1	
C7557	ECJ1VC1H270J	50V 27P	1	
C7558	ECJ1VB1H103K	50V 0.01U	1	
C7559	ECJ1VC1H470J	50V 47P	1	
C7560	ECJ1VB1H103K	50V 0.01U	1	
C7561	ECJ1VC1H470J	50V 47P	1	
C7562	ECJ1VB1C104K	16V 0.1U	1	
C7563	ECJ1VC1H470J	50V 47P	1	
C7564	ECJ1VB1C104K	16V 0.1U	1	
C7565,66	ECJ1VC1H100C	50V 10P	2	
C7567	F2A1A4700016	10V 47U	1	
C7568	ECJ1VB1H103K	50V 0.01U	1	
C7569	ECJ1VB1H102K	50V 1000P	1	
C7570	ECEA1EKS4R7	25V 4.7U	1	
C7571,72	ECEA1CKS100	16V 10U	2	
C7573	ECEA1EKS4R7	25V 4.7U	1	
C7574	ECEA1CKS100	16V 10U	1	
C7575-77	ECJ1VB1H103K	50V 0.01U	3	
C7578,79	ECJ1VC1H101J	50V 100P	2	
C7580	VCEA0JBS101	6.3V 100U	1	F2A0J1010003
C7581	ECJ1VF1C104Z	16V 0.1U	1	
C7582	VCE0073-T	CAPACITOR	1	F4D55473A005
C7583	F2A0J471A016	6.3V 470U	1	
C7584	ECJ1VF1C104Z	16V 0.1U	1	
C7585	ECJ1VB1H103K	50V 0.01U	1	
C7586	ECEA1CKA470	16V 47U	1	
C7587	ECJ1VF1C104Z	16V 0.1U	1	
C7588	ECEA1CKA470	16V 47U	1	
C7589,90	ECJ1VC1H100C	50V 10P	2	
C7593-98	ECJ1VC1H100C	50V 10P	6	
C7599	ECJ1VC1H101J	50V 100P	1	
C7600	ECJ1VF1C104Z	16V 0.1U	1	
C7601	F2A1A4700016	10V 47U	1	
C7603	F2A1A4700016	10V 47U	1	
C7604	ECJ1VB1H103K	50V 0.01U	1	
C7605	VCEA0JBS101	6.3V 100U	1	F2A0J1010003
C7606	ECJ1VF1C104Z	16V 0.1U	1	
C7607	ECJ1VF1H103Z	50V 0.01U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7608	ECJ1VF1C104Z	16V 0.1U	1	
C7609	ECJ1VB1H103K	50V 0.01U	1	
C7610	ECJ3VB1C104K	16V 0.1U	1	
C7611-13	ECJ1VB1C104K	16V 0.1U	3	
C7701	VCEA0JJC470B	6.3V 47U	1	F2A0J4700003
C7702	ECJ2VB1H103K	50V 0.01U	1	
C7703	ECJ1VB1H103K	50V 0.01U	1	
C7704	VCEA0JJC470B	6.3V 47U	1	F2A0J4700003
C7707,08	ECJ1VC1H330J	50V 33P	2	
C7709	ECJ1VB1C104K	16V 0.1U	1	
C7710	VCEA0JCB470B	6.3V 47U	1	F2A0J470A013
C7711	ECUV1H221JCV	50V 220P	1	ECJ1VC1H221J
C7712	ECJ1VB1C104K	16V 0.1U	1	
C7713	ECEA1HKS010	50V 1U	1	
C7714	VCEA0JCB470B	6.3V 47U	1	F2A0J470A013
C7715	ECJ1VB1C104K	16V 0.1U	1	
C7718	ECJ1VB1H222K	50V 2200P	1	
C7719	VCEA1CJC470B	16V 47U	1	F2A1C4700007
C7720	ECJ1VB1C104K	16V 0.1U	1	
C7721	VCEA1CJC470B	16V 47U	1	F2A1C4700007
C7722	ECJ1VB1H103K	50V 0.01U	1	
C7723	ECA1HAK2R2XB	50V 2.2U	1	
C7724	ECA1CAK100XB	16V 10U	1	
C7725	ECA1HAK2R2XB	50V 2.2U	1	
C7726	ECA1CAK100XB	16V 10U	1	
C7727	ECJ2VF1C104Z	16V 0.1U	1	(EG)(GN)
C7728	ECJ2VB1H332K	50V 3300P	1	(EB)
C7728	ECJ2VF1C104Z	16V 0.1U	1	(EG)(GN)
C7729	ECJ1VB1H102K	50V 1000P	1	
C7730	ECUV1H102KBN	50V 1000P	1	ECJ2VB1H102K
C9001-05	EEVHB0J470R	6.3V 47U	5	
C9007	F2G1C470A015	16V 47U	1	
C9011	EEVHB0J470R	6.3V 47U	1	
C9013	EEVHB0J470R	6.3V 47U	1	
C9016	EEVHB0J470R	6.3V 47U	1	
C9017	ECJ1VF1C104Z	16V 0.1U	1	
C9901	VCEA0JJC470B	6.3V 47U	1	F2A0J4700003
C9902	ECJ1VB1C104K	16V 0.1U	1	
C9903	VCEA0JJC470B	6.3V 47U	1	F2A0J4700003
C9904	ECJ1VB1C104K	16V 0.1U	1	
C9905	F2A1C331A019	16V 330U	1	
C9906,07	F2A0J471A256	6.3V 470U	2	
C9908	F2A1A471A211	10V 470U	1	
C9909	F2A1E221A210	25V 220U	1	
C9910,11	F2A0J471A256	6.3V 470U	2	
C9912	F2A0J470A012	6.3V 47U	1	
C9913,14	ECJ1VB1C104K	16V 0.1U	2	
C9915	VCEA0JJC470B	6.3V 47U	1	F2A0J4700003
C9917	VCEA1CJC470B	16V 47U	1	F2A1C4700007
C9918	VCEA0JCB470B	6.3V 47U	1	F2A0J470A013
C9919,20	ECJ1VB1C104K	16V 0.1U	2	
C9921,22	F2A0J470A012	6.3V 47U	2	
C9923	ECJ1VB1C104K	16V 0.1U	1	
C9924	VCEA0JCB470B	6.3V 47U	1	F2A0J470A013

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9925	F2A0J470A012	6.3V 47U	1	
C9926	ECJ1VB1C104K	16V 0.1U	1	
C9927	VCEA0JJC470B	6.3V 47U	1	F2A0J4700003
C9928	ECJ1VB1C104K	16V 0.1U	1	
C9929	F2A1C221A243	16V 220U	1	
C9930	ECJ1VB1C104K	16V 0.1U	1	
C9931	ECJ1VB1H102K	50V 1000P	1	
C9934	ECJ2VF1C104Z	16V 0.1U	1	
C9935,36	ECUV1H221JCV	50V 220P	2	ECJ1VC1H221J
C9937	ECJ1VF1C104Z	16V 0.1U	1	
C9938	ECUV1H102KBN	50V 1000P	1	ECJ2VB1H102K
C9940-44	ECJ1VB1H103K	50V 0.01U	5	
C9948-53	ECJ1VB1C104K	16V 0.1U	6	
C37001	ECUV1H271JCV	50V 270P	1	ECJ1VC1H271J
C37002,03	ECJ2YB1A105K	10V 1U	2	
C37007,08	ECJ1VC1H120J	50V 12P	2	
C37009	ECJ1VB1C104K	16V 0.1U	1	
C37011	ECJ1VB1C104K	16V 0.1U	1	
C37012	EEVHB0J470R	6.3V 47U	1	
C37013	ECJ1VF1C104Z	16V 0.1U	1	
C37014	ECJ2YB1A105K	10V 1U	1	
C37015	EEVHB0J101P	6.3V 100U	1	
C37025	ECJ1VF1C104Z	16V 0.1U	1	
C37031	ECUV1H180JCV	50V 18P	1	ECJ1VC1H180J
C37032	ECJ1VC1H330J	50V 33P	1	
C37033	ECJ1VF1C104Z	16V 0.1U	1	
C37034	ECJ2YB1A105K	10V 1U	1	
C37035,36	ECJ1VC1H560J	50V 56P	2	
C50007	ECJ1VB1C104K	16V 0.1U	1	
C50008,09	ECJ1VB0J105K	6.3V 1U	2	
C50010	EEVHB0J220R	6.3V 22U	1	
C50012,13	ECJ1VB1C104K	16V 0.1U	2	
C50014	ECJ1VF1C104Z	16V 0.1U	1	
C50015	EEVHB0J220R	6.3V 22U	1	
C50016	ECJ1VF1C104Z	16V 0.1U	1	
C50018	EEVHB0J101P	6.3V 100U	1	
C50025	ECJ1VF1C104Z	16V 0.1U	1	
C50026,27	EEVHB1C100R	16V 10U	2	
C50028	ECJ1VF1C104Z	16V 0.1U	1	
D001	S1WBA60S	DIODE	1	B0KA00000014
D002	MA728	DIODE	1	MA2J728
D006	M1FL20U	DIODE	1	
D007	AP01C	DIODE	1	B0HADV000010
D101,02	RL2ZLF	DIODE	2	B0HANM000021
D103	RK39	DIODE	1	
D104	YG802C06	DIODE	1	
D105,06	RK49	DIODE	2	B0JAPK000005
D107-10	MA165	DIODE	4	MA2C165
D111	MA111TX	DIODE	1	MA2J11100L
D112	ERA15-04	DIODE	1	B0EAKP000016
D113	MA111TX	DIODE	1	MA2J11100L
D115,16	M1F60	DIODE	2	
D301-04	MA111TX	DIODE	4	MA2J11100L

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D305	MA165	DIODE	1	MA2C165
D306-08	MA111TX	DIODE	3	MA2J11100L
D0702	ERJ6GEY0R00V	1/10W 0	1	
D3201,02	MA3S132E0L	DIODE	2	
D3901	MA2C165001VT	DIODE	1	
D3902	MA142WK	DIODE	1	MA3J142E0L
D3903	MA3Z142D0RG	DIODE	1	
D3904	MA142WK	DIODE	1	MA3J142E0L
D3905,06	MAZ4051NMF	DIODE	2	
D3907-12	MAZ81200GL	DIODE	6	
D4003	MA3Z142D0RG	DIODE	1	
D4005,06	MA3Z142D0RG	DIODE	2	
D7001,02	LNJ201LPQJA	LED	2	
D7501	VSD0002	DIODE	1	B0HAGR000005
D7502	ERA22-02	DIODE	1	B0HAGM000001
D7503	MAZ4240NMF	DIODE	1	
D7504,05	MA2C18500E	DIODE	2	
D7506	MA4300N-M	DIODE	1	MAZ4300NM
D7507	B0ACCK000005	DIODE	1	
D7512	MA719TA	DIODE	1	MA2C71900A
D7513	B0JACE000001	DIODE	1	
D7701	MA4300N-M	DIODE	1	MAZ4300NM
D7801	LNJ201LPQJA	LED	1	
D9001	MA3Z142K0LG	DIODE	1	
D9901,02	B0JACE000001	DIODE	2	
DP7501	A2BD00000056	DIODE	1	
DZ3901,02	D4ED18R00005	SURGE ABSORBER	2	⚠
DZ7001	ERZVA5V471	SURGE ABSORBER	1	⚠
F001	19181-2A	FUSE	1	
FL3001	ELB4C082B	FILTER	1	
FL3002	ELB4B109B	FILTER	1	
FL3003	ELB4B106B	FILTER	1	
FL3004	ELB4A029B	FILTER	1	
FL3005-07	ELB4C083B	FILTER	3	
FL3202-18	F1H0J1050018	FILTER	17	
FL3220-22	F1H0J1050018	FILTER	3	
FL3225	F1H0J1050018	FILTER	1	
FL3401-06	F1H0J1050018	FILTER	6	
FL3409-19	F1H0J1050018	FILTER	11	
FL3421,22	F1H0J1050018	FILTER	2	
FL3425	F1H0J1050018	FILTER	1	
FL3428	F1H0J1050018	FILTER	1	
FL3501	ELB4E042B	FILTER	1	
FL4401-04	F1H0J1050018	FILTER	4	
FL6001-05	F1H0J1050018	FILTER	5	
FL6007-13	F1H0J1050018	FILTER	7	
FL6701-04	F1H0J1050018	FILTER	4	
FL6707	F1H0J1050018	FILTER	1	
FL6801-06	F1H0J1050018	FILTER	6	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
FL6808	F1H0J1050018	FILTER	1	
FL9001-03	J0HAAB000017	FILTER	3	
FL9004,05	F1H0J1050018	FILTER	2	
FL9006,07	J0HAAB000017	FILTER	2	
FL9008-10	J0HAAC000027	FILTER	3	
FL9011-13	F1H0J1050018	FILTER	3	
FL9016	F1J1A105A013	FILTER	1	
FL9020	F1H0J1050018	FILTER	1	
FL9022	F1H0J1050018	FILTER	1	
FL9024	F1H0J1050018	FILTER	1	
FL37001	F1H0J1050018	FILTER	1	
FL37002	F1H0J1050018	FILTER	1	
FL37003	F1H0J1050018	FILTER	1	
FL37004	F1H0J1050018	FILTER	1	
FL37005	F1H0J1050018	FILTER	1	
FL37006	F1H0J1050018	FILTER	1	
FL37007	F1H0J1050018	FILTER	1	
FL37008	F1H0J1050018	FILTER	1	
FL37009	F1H0J1050018	FILTER	1	
FL37010	F1H0J1050018	FILTER	1	
FL37012	F1H0J1050018	FILTER	1	
FL37013	F1H0J1050018	FILTER	1	
FL37014	F1H0J1050018	FILTER	1	
FL37015	F1H0J1050018	FILTER	1	
FL50001	F1H0J1050018	FILTER	1	
FL50002	F1H0J1050018	FILTER	1	
FL50003	F1H0J1050018	FILTER	1	
FL50004	F1H0J1050018	FILTER	1	
FL50005	F1H0J1050018	FILTER	1	
FL50006	F1H0J1050018	FILTER	1	
FL50007	F1H0J1050018	FILTER	1	
FL50008	F1H0J1050018	FILTER	1	
FL50009	F1H0J1050018	FILTER	1	
FL50010	F1H0J1050018	FILTER	1	
FL50011	F1H0J1050018	FILTER	1	
FL50012	F1H0J1050018	FILTER	1	
FL50013	F1H0J1050018	FILTER	1	
FL50014	F1H0J1050018	FILTER	1	
FL50016	F1H0J1050018	FILTER	1	
FL50017	F1H0J1050018	FILTER	1	
FL50018	F1H0J1050018	FILTER	1	
FL50019	F1H0J1050018	FILTER	1	
FL50020	F1H0J1050018	FILTER	1	
FL50021	F1H0J1050018	FILTER	1	
FL50023	F1H0J1050018	FILTER	1	
FL50025	F1H0J1050018	FILTER	1	
FL50027	F1H0J1050018	FILTER	1	
FL50028	F1H0J1050018	FILTER	1	
IC001	FA13844N	IC	1	
IC101	NJM431U	IC	1	
IC301,02	NJM2904M	IC	2	C0ABBA000021
IC0701	LA75503	IC	1	C1AA00000606
IC3001	C1AB00001487	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC3006	C1AB00000791	IC	1	
IC3201	C3ABMG000103	IC	1	
IC3202	AN13300A-VF	IC	1	
IC3203	MN673744	IC	1	
IC3401	C3ABPJ000018	IC	1	
IC3402	MN85572	IC	1	
IC3403,04	C3ABQG000007	IC	2	
IC3405	MN85610GL	IC	1	
IC3501	C1AB00000773	IC	1	
IC3502	C0JBAR000292	IC	1	
IC3503	BA7660FS-E2	IC	1	C9ZB00000282
IC3506,07	C0JBAR000292	IC	2	
IC3508	C9ZB00000377	IC	1	
IC3509	C1AA00000016	IC	1	
IC3901	C1AB00001476	IC	1	
IC4002	C0JBAR000285	IC	1	
IC4003	C0ABBB000216	IC	1	
IC4004	C1AB00000818	IC	1	
IC4005	TC7W04FTE12L	IC	1	C0JBAB000178
IC4006	K7AABA000001	IC	1	
IC4007	TC7SET08F	IC	1	C0JBAA000284
IC4008	NJM4558M	IC	1	C0ABBB000044
IC4009	C0ABBB000216	IC	1	
IC4010	C0DBZJG00005	IC	1	
IC4011	AN78L09M	IC	1	
IC4012	NJM4558M	IC	1	C0ABBB000044
IC4401	AN78L05M-E1	IC	1	AN78L05ME1
IC4404	C0ABBB000105	IC	1	
IC4405	C0FBAK000008	IC	1	
IC4406	C0JBAR000332	IC	1	
IC4407	C0JBAA000102	IC	1	
IC4408	C3BBHC000260	IC	1	
IC4409	C1ZBZ0002077	IC	1	
IC4410	C0JBAA000257	IC	1	
IC4501	C1BB00000083	IC	1	(EB)
IC6001	C3ABQG000007	IC	1	
IC6002	C0JBBZ000269	IC	1	
IC6003	C0JBAZ001918	IC	1	
IC6005	MN103E030HYB	IC	1	
IC6007	C3CBKD000117	IC	1	
IC6008	C3ABQG000007	IC	1	
IC6701	C1ZBZ0001925	IC	1	
IC6702	C0EBE0000130	IC	1	
IC6703	C1ZBZ0002042	IC	1	
IC6705	C0JBAZ001918	IC	1	
IC6706	74LVX4245MTX	IC	1	C0JBAZ001406
IC6707	REP3391AC	IC	1	DIGITAL P.C.B.(EG)
IC6707	REP3391AE	IC	1	DIGITAL P.C.B.(GN)
IC6707	REP3391CE	IC	1	DIGITAL P.C.B.(EB)
IC6708	C0JBAB000474	IC	1	
IC6801	C0JBAZ001859	IC	1	
IC6802	C1ZBZ0002086	IC	1	
IC6803	C0JBAZ001959	IC	1	
IC6804	C0JBAB000007	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC6805	TC7W14FU	IC	1	
IC6806	C0EBJ0000172	IC	1	
IC6807	TC7W32FUTL	IC	1	C0JBAE000098
IC6808	C0DBFHD00003	IC	1	
IC7301	TDA9874AH	IC	1	C1AB00001404
IC7302	PST7043-T	IC	1	C0EAH0000051
IC7501	C0HBB0000029	IC	1	
IC7502	C2CBJG000264	IC	1	
IC7503	C1BA00000060	IC	1	
IC7504	C0EAJ0000045	IC	1	
IC7505	C0EBF0000057	IC	1	
IC7506	C3EBJC000038	IC	1	
IC7507	NJM2904M	IC	1	C0ABBA000021
IC7508	C0EBE0000218	IC	1	
IC7601	NJM4558M	IC	1	C0ABBB000044
IC9001	C0DBCGD00001	IC	1	
IC9901,02	C0DBCHD00002	IC	2	
IC9903	C0DBZJG00005	IC	1	
IC9904	C0DBZHE00013	IC	1	
IC9905	C0DBFGD00009	IC	1	
IC9906	C0DBEZC00010	IC	1	
IC9907,08	C0DBFHD00003	IC	2	
IC9909	C0CBCBE00001	IC	1	
IC9910	C0DBFFE00002	IC	1	
IC9911	C0DBFFD00006	IC	1	
IC9912	C0DBCHD00002	IC	1	
IC37001	MN673745	IC	1	
IC37002	C1DB00000526	IC	1	
IC37003	BH7086KV	IC	1	C1ZBZ0001649
IC37006	C1BB00000699	IC	1	
IC37007	C0JBAR000255	IC	1	
IC37008	C0JBAA000102	IC	1	
IC37009	C0JBAA000257	IC	1	
IC37010	C0JBAA000257	IC	1	
IC37011	C0JBAA000102	IC	1	
IC50001	C1DB00000895	IC	1	
IC50002	C3ABPG000067	IC	1	
IC50003	MN677551NA	IC	1	
IC50004	C3ABPG000067	IC	1	
IC50005	C0JBAR000332	IC	1	
IC50006	C0JBAB000474	IC	1	
IC50009	C1DB00000950	IC	1	
IC50010	C0FBBK000030	IC	1	
IC50011	C0CBCBD00002	IC	1	
IC50012	C0JBAZ001776	IC	1	
IC50013	C0JBAD000107	IC	1	
IC50014	C0JBAF000206	IC	1	
IC50015	C0CBCBD00002	IC	1	
IP101	ICPN15	IC PROTECTOR	1	
IP4001	D4FAR4000001	IC PROTECTOR	1	⚠
IP7501	D4FAR4000001	IC PROTECTOR	1	⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IR7001	C9ZZ00000015	REMOTE SENSOR	1	
JK3001	K1U822B00001	JACK,AV IN/OUT	1	
JK3904	K1FB121A0003	JACK,AV 2	1	
JK3905	K1FB121A0003	JACK,AV 1	1	
JK7001	K2HA307A0006	JACK,AV IN	1	
JK7002	K1CB104A0014	JACK,S-VIDEO IN	1	
K0701	ECJ1VC1H560J	50V 56P	1	(EG)(GN)
K0703	ERJ3GEY0R00V	1/16W 0	1	
K0707	ERJ3GEY0R00V	1/16W 0	1	
K0709	ERJ3GEY0R00V	1/16W 0	1	
K6801,02	ERJ3GEY0R00V	1/16W 0	2	
K7001	ERJ3GEY0R00V	1/16W 0	1	
K7002	ERJ8GEY0R00V	1/8W 0	1	
K7004	ERJ3GEY0R00V	1/16W 0	1	
K7301-03	ERJ3GEY0R00V	1/16W 0	3	
K7305	ERJ3GEY0R00V	1/16W 0	1	
K7705	ERJ3GEY0R00V	1/16W 0	1	
L001,02	ELF15N005A	NOISE FILTER	2	
L003	EXCELDR35	FILTER	1	
L004	LHLZ680K	FILTER	1	
L101	EXCELDR35	FILTER	1	
L102	LHLZ1R0M	FILTER	1	
L103	EXCELDR35	FILTER	1	
L104	EXCELSA24	FILTER	1	
L105	LHLZ2R2M	FILTER	1	
L106	EXCELDR35	FILTER	1	
L107	LH8TB100K	FILTER	1	
L108	LHLZ1R5M	FILTER	1	
L109	LHLZ4R7M	FILTER	1	
L110,11	EXCELSA24	FILTER	2	
L113,14	EXCELDR35	FILTER	2	
L115	EXCELSA35	FILTER	1	
L116	LHLZ2R2M	FILTER	1	
L117	EXCELSA24	FILTER	1	
L0701	ELJNAR22JF	COIL	1	(EB)
L0701	ELJNAR27JF	COIL	1	(EG)(GN)
L0703	ELJNA1R8JF	COIL	1	(EB)
L0703	ELJNA2R2JF	COIL	1	(EG)(GN)
L3001-04	G0C220JA0019	COIL 22UH	4	
L3501	G0C220JA0019	COIL 22UH	1	
L3502	G0C100JA0019	COIL 10UH	1	
L3504	G0C220JA0019	COIL 22UH	1	
L3505	G0C4R7JA0019	COIL 4.7UH	1	
L3506	G0C220JA0019	COIL 22UH	1	
L3508	G0C4R7JA0019	COIL 4.7UH	1	
L4002	ELESE220KA	COIL 22UH	1	
L7303	G0C1R0JA0019	COIL	1	
L7701	ERDS2FJ271	1/4W 270	1	(EB)
L7703	VLQ0599J270	COIL 27UH	1	G0C270JA0026 (EB)
L7704	VLQ0599J2R2	COIL 2.2UH	1	G0C2R2JA0026
L37001	VLQ0426J120	COIL 12UH	1	G1C120J00005

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB3001-04	J0JGC0000020	COIL	4	
LB3005-10	ERJ3GEY0R00V	1/16W 0	6	
LB3201-03	J0JHC0000032	COIL	3	
LB3907,08	J0JGC0000020	COIL	2	
LB3911-13	J0JGC0000020	COIL	3	
LB3922-25	J0JGC0000020	COIL	4	
LB4001	J0JGC0000020	COIL	1	
LB4403-06	J0JGC0000020	COIL	4	
LB4501	J0JGC0000020	COIL	1	(EB)
LB6803,04	J0JHC0000032	COIL	2	
LB6805	J0JHC0000045	COIL	1	
LB7001-05	VLP0323A601T	COIL	5	J0JCC0000103
LB7301,02	VLP0153	COIL	2	J0JCC0000112
LB7303	VLP0150	COIL	1	J0JCC0000021
LB7501,02	ERJ3GEY0R00V	1/16W 0	2	
LB7503	G0ZZ00001936	COIL	1	
LB7504	J0JGC0000020	COIL	1	
LB7505	ERJ3GEY0R00V	1/16W 0	1	
LB7506	J0JGC0000020	COIL	1	
LB7507,08	J0JHC0000032	COIL	2	
LB7509,10	J0JGC0000020	COIL	2	
LB7511	J0JHC0000032	COIL	1	
LB7512-18	J0JGC0000020	COIL	7	
LB7519	ERJ3GEY0R00V	1/16W 0	1	
LB7520-23	J0JGC0000020	COIL	4	
LB7701-03	J0JHC0000032	COIL	3	
LB7705	J0JHC0000032	COIL	1	
LB7707	J0JGC0000020	COIL	1	
LB7708	J0JHC0000032	COIL	1	
LB7709	ERJ6GEY0R00V	1/10W 0	1	(EB)
LB7710-13	J0JHC0000032	COIL	4	
LB9001	J0JHC0000032	COIL	1	
LB9002,03	J0JHC0000045	COIL	2	
LB9005	J0JHC0000032	COIL	1	
LB9006	J0JHC0000045	COIL	1	
LB9007	J0JHC0000032	COIL	1	
LB9009	J0JHC0000032	COIL	1	
LB9012,13	J0JHC0000045	COIL	2	
LB9015	VLP0323A601T	COIL	1	J0JCC0000103
LB9018-21	VLP0323A601T	COIL	4	J0JCC0000103
LB9028-30	VLP0323A601T	COIL	3	J0JCC0000103
LB9032	VLP0323A601T	COIL	1	J0JCC0000103
LB9034	VLP0323A601T	COIL	1	J0JCC0000103
LB9036-38	VLP0323A601T	COIL	3	J0JCC0000103
LB9040	VLP0323A601T	COIL	1	J0JCC0000103
LB9046	VLP0323A601T	COIL	1	J0JCC0000103
LB9801	ERJ3GEY0R00V	1/16W 0	1	
LB9901-07	J0JHC0000032	COIL	7	
LB9908-14	J0JGC0000020	COIL	7	
LB37001	J0JHC0000032	COIL	1	
LB37002	J0JHC0000032	COIL	1	
LB37003	J0JHC0000032	COIL	1	
LB37005	J0JHC0000032	COIL	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB50001	J0JHC0000032	COIL	1	
LB50003	J0JGC0000020	COIL	1	
LB50004	J0JHC0000032	COIL	1	
LB50005	J0JHC0000032	COIL	1	
LB50006	J0JGC0000020	COIL	1	
LX9801-08	D1H8R0040009	RESISTOR-RESISTOR	8	
P001	M2023	AC INLET	1	
P3401	K1MN40B00010	CONNECTOR(40P)	1	
P3402	K1MN40B00023	CONNECTOR(40P)	1	
P6001	K1KA06B00054	CONNECTOR(6P)	1	
P6701	K1MN50B00008	CONNECTOR(50P)	1	
P6801	K1MN50B00012	CONNECTOR(50P)	1	
P6802	K1NA68E00065	CONNECTOR(68P)	1	
P6803	K1KA05B00048	CONNECTOR(5P)	1	
P7001	K1KA20C00003	CONNECTOR(20P)	1	
P7501	K1KB20B00039	CONNECTOR(20P)	1	
P7504	TJS118601T	CONNECTOR(3P)	1	K1KA03A00173
P7801	K1KA10C00006	CONNECTOR(10P)	1	
P7802	K1MN06C00002	CONNECTOR(6P)	1	
P7901	TJSF45106	CONNECTOR(6P)	1	K1MN06B00066
P9001	K1KB80B00020	CONNECTOR(80P)	1	
P9801	K1KB40A00118	CONNECTOR(40P)	1	
P9802	K1MN40B00022	CONNECTOR(40P)	1	
P9901	K1KA05A00082	CONNECTOR(5P)	1	
P37001	K1KB08B00055	CONNECTOR(8P)	1	
P37002	K1KA08B00213	CONNECTOR(8P)	1	
P37003	K2HZ104B0010	CONNECTOR(104P)	1	
PC001	0N3171	PHOTO COUPLER	1	CNC1S171
PC1	RPG6046	PACKING CASE	1	(EG)
PC1	RPG6047	PACKING CASE	1	(EB)
PC1	RPG6176	PACKING CASE	1	(GN)
PC2	RPN1557A	CUSHION(L)	1	
PC3	RPN1557B	CUSHION(R)	1	
PC4	VPF0505	POLYETHYLENE BAG	1	
PK0701	VJR0826E009W	CONNECTOR(MALE) 9P	1	K1MR09A00028
PK7301	VJR0777B007W	CONNECTOR(MALE) 7P	1	K1MM07B00002
PK7302	VJR0777B006W	CONNECTOR(MALE) 6P	1	K1MM06B00002
PP0701	VJP3589E004B	CONNECTOR(MALE) 4P	1	K1KA04B00135
PP3001	VJP3042G015W	CONNECTOR(MALE) 15P	1	K1KA15A00064
PP3002	VJP3042G012W	CONNECTOR(MALE) 12P	1	K1KA12A00136
PP3003	VJP3042G018W	CONNECTOR(MALE) 18P	1	K1KA18A00041
PP3004	VJP3042G020W	CONNECTOR(MALE) 20P	1	K1KA20A00203
PP3005	VJP3042G012W	CONNECTOR(MALE) 12P	1	K1KA12A00136
PP3006	VJP3042G015W	CONNECTOR(MALE) 15P	1	K1KA15A00064
PP9901	K1KA80A00096	CONNECTOR(FEMALE) 80P	1	
PP9902	K1KA23A00003	CONNECTOR(MALE) 23P	1	
PS101	B4B-EH-A	CONNECTOR(4P)	1	
PS102	TWGP23XA1	CONNECTOR(23P)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
PS103	52724-1010	CONNECTOR(10P)	1	
PS104	B4B-EH-A	CONNECTOR(4P)	1	
PS3501	VJS3042F015W	CONNECTOR(FEMALE) 15P	1	K1KB15B00013
PS3502	VJS3042F012W	CONNECTOR(FEMALE) 12P	1	K1KB12B00030
PS3503	VJS3042F018W	CONNECTOR(FEMALE) 18P	1	K1KB18B00012
PS3901	VJS3042F012W	CONNECTOR(FEMALE) 12P	1	K1KB12B00030
PS3902	VJS3042F015W	CONNECTOR(FEMALE) 15P	1	K1KB15B00013
PS3903	VJS3042F020W	CONNECTOR (FEMALE) 20P	1	K1KB20B00027
Q001	FMG2A	TRANSISTOR	1	
Q002	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q004	2SK2718	TRANSISTOR	1	
Q101	UN221L	TRANSISTOR	1	UNR221L
Q102	2SB709A	TRANSISTOR	1	2SB0709A
Q103,04	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q105	UPA1720G	TRANSISTOR	1	
Q106	UN2111	TRANSISTOR	1	UNR2111
Q107	UPA1717G	TRANSISTOR	1	
Q301,02	2SK3366	TRANSISTOR	2	
Q303	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q304	2SB710A	TRANSISTOR	1	2SB0710A
Q305	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q306	2SB710A	TRANSISTOR	1	2SB0710A
Q307,08	2SB1218A	TRANSISTOR	2	
Q309,10	2SD1328-R	TRANSISTOR	2	2SD13280R
Q311,12	2SB1218A	TRANSISTOR	2	
Q0702	2SD0601ASL	TRANSISTOR	1	
Q3001	2SD1819A0L	TRANSISTOR	1	
Q3002	2SB1218A0L	TRANSISTOR	1	
Q3003	2SD1819A0L	TRANSISTOR	1	
Q3004	2SB1218A0L	TRANSISTOR	1	
Q3006-11	2SB1218A0L	TRANSISTOR	6	
Q3201	2SB1218A0L	TRANSISTOR	1	
Q3202	2SD1819A0L	TRANSISTOR	1	
Q3501-04	2SD0601A0L	TRANSISTOR	4	
Q3505	2SC22950BL	TRANSISTOR	1	
Q3506	2SA10220BL	TRANSISTOR	1	
Q3507,08	2SB709A	TRANSISTOR	2	2SB0709A
Q3509	2SD0601A0L	TRANSISTOR	1	
Q3902	2SB1218A0L	TRANSISTOR	1	
Q3905	2SD132800L	TRANSISTOR	1	
Q3906	2SB0710A0L	TRANSISTOR	1	
Q3907	2SD1819AWL	TRANSISTOR	1	
Q3908	2SB1218A0L	TRANSISTOR	1	
Q3909,10	2SD132800L	TRANSISTOR	2	
Q4001,02	2SD132800L	TRANSISTOR	2	
Q4004	2SB1218A0L	TRANSISTOR	1	
Q4006-09	2SD132800L	TRANSISTOR	4	
Q4501	2SD0601A0L	TRANSISTOR	1	(EB)
Q6701-04	2SD0601A0L	TRANSISTOR	4	
Q7501,02	2SD0601A0L	TRANSISTOR	2	
Q7503	2SD1994BR1VT	TRANSISTOR	1	
Q7504,05	2SD0601A0L	TRANSISTOR	2	
Q7506	2SD1819A0L	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q7507	2SD0601A0L	TRANSISTOR	1	
Q7508	2SD1819A0L	TRANSISTOR	1	
Q7509	2SC2295	TRANSISTOR	1	
Q7510	2SB709A	TRANSISTOR	1	2SB0709A
Q7511,12	2SD0601A0L	TRANSISTOR	2	
Q7513	2SD1819A0L	TRANSISTOR	1	
Q7515	2SD1119-R	TRANSISTOR	1	2SD11190R
Q7516	2SB0710A0L	TRANSISTOR	1	
Q7701	2SD1819A0L	TRANSISTOR	1	
Q7702	2SB1218A0L	TRANSISTOR	1	
Q50001-05	2SB1218A0L	TRANSISTOR	5	
QR3401	UN521L	TRANSISTOR	1	UNR521L
QR3402,03	UN5213TX	TRANSISTOR	2	UNR521300L
QR3901-06	UN5212-TX	TRANSISTOR	6	UNR521200L
QR3907	UNR511400L	TRANSISTOR	1	
QR3908	UN5212-TX	TRANSISTOR	1	UNR521200L
QR3909	UNR521100L	TRANSISTOR	1	
QR3910,11	UN5212-TX	TRANSISTOR	2	UNR521200L
QR3912	UNR511400L	TRANSISTOR	1	
QR3913	UN5212-TX	TRANSISTOR	1	UNR521200L
QR3914,15	UN2215-TX	TRANSISTOR	2	UNR221500L
QR4002-07	UNR521100L	TRANSISTOR	6	
QR4010,11	UNR521100L	TRANSISTOR	2	
QR4012	UN5113TW	TRANSISTOR	1	
QR6801	UN5213TX	TRANSISTOR	1	UNR521300L
QR6802	UNR521100L	TRANSISTOR	1	
QR7001-03	UN5213TX	TRANSISTOR	3	UNR521300L
QR7501	UN5212-TX	TRANSISTOR	1	UNR521200L
QR7502	UN5113TW	TRANSISTOR	1	
QR7701	UN2115-TX	TRANSISTOR	1	UNR211500L (EB)
QR7702	UN2215-TX	TRANSISTOR	1	UNR221500L (EB)
QR7802,03	UN5213TX	TRANSISTOR	2	UNR521300L
R001	ERDS1FJ223	0.5W 22K	1	
R002	ERDS1TJ474	1/2W 470K	1	
R003	ERDS1FJ223	0.5W 22K	1	
R005	ERDS1FJ223	0.5W 22K	1	
R006	CR10J473	0.1W 47K	1	
R007	CR10F1502	0.1W 15K	1	
R008	CR10F6810	0.1W 681	1	
R009	CR10J104	0.1W 100K	1	
R010	CR10F1621	0.1W 1.62K	1	
R011	CR10J102	0.1W 1K	1	
R012	CR10J822	0.1W 8.2K	1	
R013	CR10J222	0.1W 2.2K	1	
R014	CR10J333	0.1W 33K	1	
R015,16	CR10J101	0.1W 100	2	
R018	ERJ12YJ4R7	0.5W 4.7	1	
R020	CR10J101	0.1W 100	1	
R021	CR10J561	0.1W 560	1	
R023	ERJ14YJ224	0.25W 220K	1	
R024-26	CR100R00	0	3	
R027	ERG1SJ101	1W 100	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R028	ERJ12YJ4R7	0.5W 4.7	1	
R030	ERJ14YJ224	0.25W 220K	1	
R102	CR10J152	0.1W 1.5K	1	
R103	CR10J471	0.1W 470	1	
R104	CR10J100	0.1W 10	1	
R105	CR10J102	0.1W 1K	1	
R106	CR10J150	0.1W 15	1	
R107	CR10J330	0.1W 33	1	
R108	CR10J4R7	0.1W 4.7	1	
R109	CR10J100	0.1W 10	1	
R111-13	CR10JR16	0.1W 0.16	3	
R114	CR10J101	0.1W 100	1	
R115	CR10J222	0.1W 2.2K	1	
R116	CR10J101	0.1W 100	1	
R118	ERDS2FJ121	1/4W 120	1	
R119	CR10J101	0.1W 100	1	
R120	ER0S2CHF1470	0.25W 147	1	
R120	ER0S2CKF1400	0.25W 140	1	
R120	ER0S2CKF1430	0.25W 143	1	
R121	CR10J471	0.1W 470	1	
R122-24	CR10JR16	0.1W 0.16	3	
R125	ERDS2FJ821	1/4W 820	1	
R126	CR10J102	0.1W 1K	1	
R127	CR10J471	0.1W 470	1	
R129	CR10J222	0.1W 2.2K	1	
R130	ERDS2FJ332	1/4W 3.3K	1	
R131,32	CR10J102	0.1W 1K	2	
R135,36	CR10J682	0.1W 6.8K	2	
R137	CR100R00	0	1	
R139-42	CR10JR16	0.1W 0.16	4	
R144	CR10J822	0.1W 8.2K	1	
R145	ER0S2TKF4320	0.25W 432	1	
R145	ER0S2TKF4420	0.25W 442	1	
R145	ER0S2TKF4530	0.25W 453	1	
R301,02	CR10J101	0.1W 100	2	
R303,04	CR10J103	0.1W 10K	2	
R305,06	CR10J472	0.1W 4.7K	2	
R307	CR10J102	0.1W 1K	1	
R308	ERDS2FJ472	1/4W 4.7K	1	
R309	CR10J102	0.1W 1K	1	
R310	CR10J472	0.1W 4.7K	1	
R311	CR10J683	0.1W 68K	1	
R312	CR10J472	0.1W 4.7K	1	
R313	CR10J683	0.1W 68K	1	
R314	CR10J472	0.1W 4.7K	1	
R315,16	CR10J752	0.1W 7.5K	2	
R317	CR10J102	0.1W 1K	1	
R318	CR10J471	0.1W 470	1	
R319,20	CR10J472	0.1W 4.7K	2	
R321,22	CR10J822	0.1W 8.2K	2	
R323-26	CR10J103	0.1W 10K	4	
R327	CR10J223	0.1W 22K	1	
R328	CR10F2210	0.1W 221	1	
R329	CR10J223	0.1W 22K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R330	CR10F2210	0.1W 221	1	
R331	CR10F1002	0.1W 10K	1	
R332	CR10F3321	0.1W 3.32K	1	
R333	CR10F1002	0.1W 10K	1	
R334	CR10F3321	0.1W 3.32K	1	
R335,36	CR10J103	0.1W 10K	2	
R337,38	CR10J473	0.1W 47K	2	
R339	CR10F9091	0.1W 9.09K	1	
R340	CR10F4752	0.1W 47.5K	1	
R341	CR10F9091	0.1W 9.09K	1	
R342	CR10F4752	0.1W 47.5K	1	
R343	CR10F7151	0.1W 7.15K	1	
R344	CR10F4752	0.1W 47.5K	1	
R345	CR10F6811	0.1W 6.81K	1	
R346	CR10F4752	0.1W 47.5K	1	
R347-50	CR10J103	0.1W 10K	4	
R0701	ERJ6GEYJ104V	1/10W 100K	1	(EB)
R0705	ERJ3GEYJ472V	1/16W 4.7K	1	
R0707	ERJ3GEYJ393V	1/16W 39K	1	D0GB393JA002
R0708	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R0711	ERJ3GEYJ181V	1/16W 180	1	
R0713	ERJ3GEY0R00V	1/16W 0	1	
R0715	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R0717	ERJ3GEYJ471V	1/16W 470	1	
R0719	ERJ3GEYJ472V	1/16W 4.7K	1	
R0725	ERJ6GEYJ101V	1/10W 100	1	
R0727	ERJ3GEY0R00V	1/16W 0	1	
R0728	ERJ3GEY0R00V	1/16W 0	1	(EB)
R0729	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R0730	ERJ6GEYJ103V	1/10W 10K	1	(EG)(GN)
R0740	ERJ3GEYG471V	1/16W 470	1	
R0741	ERJ3GEYJ221V	1/16W 220	1	
R0742	ERJ8GEYJ151V	1/8W 150	1	
R0745	ERJ6GEYJ335V	1/10W 3.3M	1	
R3004	ERJ3GEY0R00V	1/16W 0	1	
R3005	ERJ3GEYJ102V	1/16W 1K	1	
R3006	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3007,08	ERJ3RBD202V	1/16W 2K	2	
R3009	ERJ3GEYJ102V	1/16W 1K	1	
R3010	ERJ3GEYJ471V	1/16W 470	1	
R3011	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3015	ERJ3GEY0R00V	1/16W 0	1	
R3016	ERJ3GEYJ102V	1/16W 1K	1	
R3017	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3018,19	ERJ3RBD362	1/16W 3.6K	2	
R3020,21	ERJ3GEYJ102V	1/16W 1K	2	
R3022	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3023	ERJ3GEYJ152V	1/16W 1.5K	1	
R3033	MCR03PZHJ561	1/16W 560	1	
R3034	ERJ3GEYJ272V	1/16W 2.7K	1	
R3035,36	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R3037	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3038	ERJ3GEYJ102V	1/16W 1K	1	
R3039	MCR03PZHJ561	1/16W 560	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3040	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3041	ERJ3GEYJ101V	1/16W 100	1	
R3042	ERJ3GEYJ102V	1/16W 1K	1	
R3043	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3044	ERJ3GEYJ101V	1/16W 100	1	
R3046	ERJ3GEYJ331V	1/16W 330	1	
R3047-49	MCR03PZHJ561	1/16W 560	3	
R3050	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3051	ERJ3GEYJ101V	1/16W 100	1	
R3053	ERJ3GEYJ331V	1/16W 330	1	
R3054	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3055	ERJ3GEYJ101V	1/16W 100	1	
R3057	ERJ3GEYJ331V	1/16W 330	1	
R3074-76	ERJ3GEYJ221V	1/16W 220	3	
R3077,78	ERJ3GEY0R00V	1/16W 0	2	
R3079,80	ERJ3GEYJ221V	1/16W 220	2	
R3081,82	ERJ3GEYJ750	1/16W 75	2	
R3083	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3084-87	ERJ3GEYJ750	1/16W 75	4	
R3204,05	ERJ3GEYJ822V	1/16W 8.2K	2	D0GB822JA002
R3206	ERJ3GEY0R00A	1/16W 0	1	
R3211,12	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R3213-15	ERJ3GEY0R00A	1/16W 0	3	
R3216	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002
R3217,18	ERJ3GEYJ220V	1/16W 22	2	
R3219	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3220,21	ERJ3RBD682V	1/16W 6.8K	2	
R3222	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R3223	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3224	ERJ3GEYJ102V	1/16W 1K	1	
R3225-27	ERJ3GEY0R00A	1/16W 0	3	
R3231,32	ERJ3GEYJ220V	1/16W 22	2	
R3236	ERJ3GEY0R00A	1/16W 0	1	
R3401	ERJ3GEYJ390	1/16W 39	1	
R3407,08	ERJ3GEYJ820V	1/16W 82	2	
R3409	ERJ3GEYJ102V	1/16W 1K	1	
R3410	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3411	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3412	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R3413,14	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3415,16	ERJ3GEYJ220V	1/16W 22	2	
R3419	ERJ3GEYJ220V	1/16W 22	1	
R3420	ERJ3GEYJ105V	1/16W 1M	1	
R3422-24	ERJ3GEYJ220V	1/16W 22	3	
R3425	ERJ3GEY0R00A	1/16W 0	1	
R3426	ERJ3GEYJ220V	1/16W 22	1	
R3427	ERJ3GEY0R00A	1/16W 0	1	
R3501	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R3502	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3503	ERJ3GEY0R00V	1/16W 0	1	
R3504	ERJ3GEYJ101V	1/16W 100	1	
R3505	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R3506	ERJ3GEYJ102V	1/16W 1K	1	
R3507	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3508	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3509	ERJ3GEYJ102V	1/16W 1K	1	
R3510	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3511	ERJ3GEYJ102V	1/16W 1K	1	
R3512	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R3513	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3514	ERJ3GEYJ102V	1/16W 1K	1	
R3515	ERJ3RBD333V	1/16W 33K	1	
R3516	ERJ3RBD562V	1/16W 5.6K	1	
R3517,18	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R3519	ERJ3GEYJ331V	1/16W 330	1	
R3520	ERJ3GEYJ224V	1/16W 220K	1	D0GB224JA002
R3523	ERJ3GEYJ563V	1/16W 56K	1	
R3524	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3525	ERJ3RBD913	1/16W 91K	1	
R3526	ERJ3GEYJ153V	1/16W 15K	1	
R3527	ERJ3RBD471V	1/16W 470	1	
R3528	ERJ3GEYJ102V	1/16W 1K	1	
R3529	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R3530-32	ERJ3GEYJ102V	1/16W 1K	3	
R3533	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R3534	ERJ3GEYJ331V	1/16W 330	1	
R3535	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3536	ERJ3RBD121	1/16W 120	1	ERJ3RBD121V
R3537	ERJ3RBD241	1/16W 240	1	ERJ3RBD241V
R3538	ERJ3GEYJ102V	1/16W 1K	1	
R3566	ERJ3GEY0R00V	1/16W 0	1	
R3567-70	ERJ3RBD333V	1/16W 33K	4	
R3572-75	ERJ3RBD562V	1/16W 5.6K	4	
R3576,77	ERJ3RBD333V	1/16W 33K	2	
R3578,79	ERJ3RBD562V	1/16W 5.6K	2	
R3580	ERJ3RBD333V	1/16W 33K	1	
R3581	ERJ3RBD562V	1/16W 5.6K	1	
R3582	ERJ3GEYJ272V	1/16W 2.7K	1	
R3583,84	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R3901	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3908,09	ERJ6GEYJ471V	1/10W 470	2	
R3910	ERJ3RBD151	1/16W 150	1	
R3911,12	ERJ3GEYJ222V	1/16W 2.2K	2	D0GB222JA002
R3913	ERJ3RBD181V	1/16W 180	1	
R3914	ERJ3RBD151	1/16W 150	1	
R3916	ERJ3GEYJ101V	1/16W 100	1	
R3918	ERJ3GEYJ102V	1/16W 1K	1	
R3919	ERJ3RBD151	1/16W 150	1	
R3921	ERJ3RED750V	1/16W 75	1	
R3922,23	ERJ6GEYJ471V	1/10W 470	2	
R3924	ERDS2FJ471	1/4W 470	1	
R3925-28	ERJ3GEYJ750	1/16W 75	4	
R3929,30	ERJ6GEYJ471V	1/10W 470	2	
R3931-34	ERJ3RED750V	1/16W 75	4	
R3935	ERJ3GEYJ750	1/16W 75	1	
R3936,37	ERJ3GEYJ472V	1/16W 4.7K	2	
R3938	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3939	ERJ3GEYJ472V	1/16W 4.7K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3940	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3941	ERJ3GEYJ153V	1/16W 15K	1	
R3942	ERJ3GEYJ472V	1/16W 4.7K	1	
R3943	ERDS2FJ471	1/4W 470	1	
R3944	ERJ3GEYJ472V	1/16W 4.7K	1	
R3945	ERJ3GEYJ392V	1/16W 3.9K	1	
R3962	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3966	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3967	ERJ3GEYJ152V	1/16W 1.5K	1	
R3968	ERJ3GEYJ680	1/16W 68	1	ERJ3GEYJ680V
R3969	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R3972-74	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R3975,76	ERJ3GEYJ101V	1/16W 100	2	
R3977,78	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3979,80	ERJ6GEYJ471V	1/10W 470	2	
R3981,82	ERJ3GEYJ821V	1/16W 820	2	
R3983,84	ERJ3GEYJ104V	1/16W 100K	2	D0GB104JA002
R3985	ERJ3RBD472V	1/16W 4.7K	1	
R3986	ERJ3RBD122V	1/16W 1.2K	1	
R3987	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3988,89	ERJ3GEYJ102V	1/16W 1K	2	
R3990,91	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R3992,93	ERJ3GEYJ102V	1/16W 1K	2	
R3994	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4001	ERJ3GEY0R00V	1/16W 0	1	
R4002	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4004	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R4005	ERJ3GEYJ751	1/16W 750	1	
R4006,07	ERJ3GEYJ272V	1/16W 2.7K	2	
R4008	ERJ3GEYJ751	1/16W 750	1	
R4014	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4017	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4019,20	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R4023	ERJ3GEYJ752V	1/16W 7.5K	1	
R4024	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4025	ERJ3GEYJ752V	1/16W 7.5K	1	
R4028	ERJ3GEYJ682V	1/16W 6.8K	1	D0GB682JA002
R4029	ERJ3GEYJ221V	1/16W 220	1	
R4030	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4031,32	ERJ3GEYJ221V	1/16W 220	2	
R4033	ERJ3GEYJ682V	1/16W 6.8K	1	D0GB682JA002
R4037,38	ERJ3GEYJ184V	1/16W 180K	2	
R4040-43	ERJ3GEYJ184V	1/16W 180K	4	
R4044,45	ERJ3GEY0R00V	1/16W 0	2	
R4046,47	ERJ3RBD392V	1/16W 3.9K	2	
R4049-54	ERJ3GEYJ683V	1/16W 68K	6	D0GB683JA002
R4055	ERJ3RBD822V	1/16W 8.2K	1	
R4056	ERJ3RBD272V	1/16W 2.7K	1	
R4057	ERJ3RBD822V	1/16W 8.2K	1	
R4058	ERJ3RBD272V	1/16W 2.7K	1	
R4060-65	ERJ3GEYJ183V	1/16W 18K	6	D0GB183JA002
R4066,67	ERJ3RBD103V	1/16W 10K	2	
R4070	ERJ3GEYJ101V	1/16W 100	1	
R4071	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4072,73	ERJ3GEYJ563V	1/16W 56K	2	
R4074	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4076	ERJ3RBD821V	1/16W 820	1	
R4077	ERJ3RBD331V	1/16W 330	1	
R4078,79	ERJ3GEYJ272V	1/16W 2.7K	2	
R4080	ERJ3RBD331V	1/16W 330	1	
R4081	ERJ3RBD821V	1/16W 820	1	
R4083	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R4085	ERJ3GEY0R00V	1/16W 0	1	
R4086	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R4087	ERJ3GEYJ102V	1/16W 1K	1	
R4088,89	ERJ3GEYJ272V	1/16W 2.7K	2	
R4090	ERJ3RBD221V	1/16W 220	1	
R4091,92	ERJ3GEY0R00V	1/16W 0	2	
R4093	ERJ3RBD221V	1/16W 220	1	
R4094,95	ERJ3GEYJ333V	1/16W 33K	2	D0GB333JA002
R4097,98	ERJ3RED204	1/16W 200K	2	
R4099	ERJ3GEYJ101V	1/16W 100	1	
R4403	ERJ3RBD682V	1/16W 6.8K	1	
R4404	ERJ3RBD133V	116W 13K	1	
R4405-07	ERJ3RBD682V	1/16W 6.8K	3	
R4408	ERJ3RBD133V	116W 13K	1	
R4409,10	ERJ3GEY0R00A	1/16W 0	2	
R4411	ERJ3GEYJ221V	1/16W 220	1	
R4412,13	ERJ3GEY0R00A	1/16W 0	2	
R4414	ERJ3GEYJ220V	1/16W 22	1	
R4415,16	ERJ3GEY0R00A	1/16W 0	2	
R4420	ERJ3GEYJ470V	1/16W 47	1	
R4422	ERJ3GEY0R00A	1/16W 0	1	
R4424	ERJ3GEY0R00A	1/16W 0	1	
R4426	ERJ3GEY0R00A	1/16W 0	1	
R4428	ERJ3GEY0R00A	1/16W 0	1	
R4430	ERJ3GEY0R00A	1/16W 0	1	
R4436,37	ERJ3GEY0R00A	1/16W 0	2	
R4501,02	ERJ3GEYJ153V	1/16W 15K	2	(EB)
R4503	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002 (EB)
R4505	ERJ3GEYJ911	1/16W 910	1	(EB)
R4506	ERJ3GEYJ335V	1/16W 3.3M	1	(EB)
R4507,08	ERJ3GEYJ152V	1/16W 1.5K	2	(EB)
R4509	ERJ3GEYJ911	1/16W 910	1	(EB)
R4510	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002 (EB)
R4511	ERJ3GEYJ752V	1/16W 7.5K	1	(EB)
R4512	ERJ3GEYJ472V	1/16W 4.7K	1	(EB)
R6001	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6003	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6004	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6005,06	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002
R6007	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6008,09	ERJ3GEYJ470V	1/16W 47	2	
R6010	ERJ3GEYJ102V	1/16W 1K	1	
R6011	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6012	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6015	ERJ3GEYJ105V	1/16W 1M	1	
R6016	ERJ3GEYJ470V	1/16W 47	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6017	ERJ3GEY0R00A	1/16W 0	1	
R6019-21	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R6022	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6023	ERJ3GEYJ470V	1/16W 47	1	
R6024	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6025,26	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6028	ERJ3GEY0R00A	1/16W 0	1	
R6029	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6030	ERJ3GEY0R00A	1/16W 0	1	
R6031,32	ERJ3GEYJ222V	1/16W 2.2K	2	D0GB222JA002
R6034	ERJ3GEYJ470V	1/16W 47	1	
R6035,36	ERJ3GEYJ333V	1/16W 33K	2	D0GB333JA002
R6037,38	ERJ3GEYJ470V	1/16W 47	2	
R6039	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6040	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6041	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6042	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6043-45	ERJ3GEYJ470V	1/16W 47	3	
R6046	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6048	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6051	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6052	ERJ3GEY0R00A	1/16W 0	1	
R6701	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6702	ERJ3GEYJ472V	1/16W 4.7K	1	
R6703	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6704	ERJ3GEYJ472V	1/16W 4.7K	1	
R6705	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6706	ERJ3GEYJ472V	1/16W 4.7K	1	
R6707	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6708	ERJ3GEY0R00A	1/16W 0	1	
R6709	ERJ3GEYJ470V	1/16W 47	1	
R6710	ERJ3GEYJ472V	1/16W 4.7K	1	
R6711,12	ERJ3GEYJ470V	1/16W 47	2	
R6713	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6714	ERJ3GEYJ102V	1/16W 1K	1	
R6715,16	ERJ3GEY0R00A	1/16W 0	2	
R6717	ERJ3GEYJ470V	1/16W 47	1	
R6718	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6719	ERJ3GEYJ470V	1/16W 47	1	
R6721-23	ERJ3GEY0R00A	1/16W 0	3	
R6724	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6725	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6726	ERJ3GEYJ470V	1/16W 47	1	
R6727	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R6728-30	ERJ3GEYJ470V	1/16W 47	3	
R6731	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R6733,34	ERJ3GEYJ470V	1/16W 47	2	
R6735	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6736	ERJ3GEYJ102V	1/16W 1K	1	
R6740	ERJ3GEY0R00A	1/16W 0	1	
R6801	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6805-14	ERJ3GEYJ223V	1/16W 22K	10	D0GB223JA002
R6815	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R6816	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6817	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6818	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R6820	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6821,22	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R6823	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7001	ERDS2FJ391	1/4W 390	1	
R7002	ERDS2FJ330	1/4W 33	1	
R7003	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7004	ERJ3GEY0R00V	1/16W 0	1	
R7006,07	ERDS2FJ221	1/4W 220	2	
R7008-10	ERJ3GEYJ750	1/16W 75	3	
R7301	ERJ3GEY0R00V	1/16W 0	1	
R7304	ERJ3GEYJ101V	1/16W 100	1	
R7307	ERJ3GEY0R00V	1/16W 0	1	
R7309	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7311	ERJ3GEYJ221V	1/16W 220	1	
R7312,13	ERJ3GEYG221	1/16W 220	2	
R7314,15	ERJ3GEY0R00V	1/16W 0	2	
R7317	ERJ3GEY0R00V	1/16W 0	1	
R7319	ERJ3GEY0R00V	1/16W 0	1	
R7322	ERJ3GEY0R00V	1/16W 0	1	
R7324,25	ERJ3GEYJ101V	1/16W 100	2	
R7501	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7502	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7503	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7504	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7505	ERJ3GEYJ101V	1/16W 100	1	
R7508	ERJ3RBD273V	1/16W 27K	1	
R7510	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7511	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7512	ERDS2FJ331	1/4W 330	1	
R7513	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7514	ERDS2FJ2R2	1/4W 2.2	1	
R7515	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R7516	ERJ3GEYJ101V	1/16W 100	1	
R7517	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R7518	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R7520	ERJ3GEYJ392V	1/16W 3.9K	1	
R7521	ERJ3GEYJ102V	1/16W 1K	1	
R7522	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R7523	ERJ3GEYG153V	1/16W 15K	1	
R7524	ERJ3GEYG152V	1/16W 1.5K	1	
R7525	ERJ3GEYG562V	1/16W 5.6K	1	
R7526	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7527	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7528	ERJ3GEYJ472V	1/16W 4.7K	1	
R7529	ERJ3GEYJ182V	1/16W 1.8K	1	
R7530	ERJ3GEYJ102V	1/16W 1K	1	
R7531,32	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R7533,34	ERJ3GEYJ472V	1/16W 4.7K	2	
R7535	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7536	ERJ3GEYJ472V	1/16W 4.7K	1	
R7537	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7538	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7539	ERJ3GEYJ225V	1/16W 2.2M	1	
R7540	ERJ3GEYJ224V	1/16W 220K	1	D0GB224JA002
R7541	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R7542	ERJ3GEYJ221V	1/16W 220	1	
R7543	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R7544	ERJ3GEYJ101V	1/16W 100	1	
R7545	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7546	ERJ3GEYJ472V	1/16W 4.7K	1	
R7547	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7548	ERJ3GEY0R00V	1/16W 0	1	
R7549	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R7550	ERJ3GEY0R00V	1/16W 0	1	
R7551	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7552-54	ERJ3GEYJ101V	1/16W 100	3	
R7555	ERJ3GEYJ221V	1/16W 220	1	
R7556	ERJ3GEYJ472V	1/16W 4.7K	1	
R7557,58	ERJ3GEYJ101V	1/16W 100	2	
R7559	ERJ3GEYJ511	1/16W 510	1	
R7560,61	ERJ3GEYJ202V	1/16W 2K	2	
R7562	ERJ3GEYJ472V	1/16W 4.7K	1	
R7563-68	ERJ3GEYJ101V	1/16W 100	6	
R7569	ERJ3GEYJ472V	1/16W 4.7K	1	
R7570,71	ERJ3GEYJ221V	1/16W 220	2	
R7572,73	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7574	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7575	ERJ3GEYG433	1/16W 43K	1	
R7576	ERJ3GEYG393V	1/16W 39K	1	
R7577-81	ERJ3GEYJ101V	1/16W 100	5	
R7582-85	ERJ3GEY0R00V	1/16W 0	4	
R7586	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7587,88	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7589	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7590-92	ERJ3RBD822V	1/16W 8.2K	3	
R7593,94	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R7595	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7596	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7597	ERJ3GEYJ153V	1/16W 15K	1	
R7598	ERJ3GEYJ181V	1/16W 180	1	
R7599	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7600	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7601	ERJ3GEYJ821V	1/16W 820	1	
R7602	ERJ3GEYJ133V	1/16W 13K	1	
R7604,05	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R7607	ERJ3GEYJ472V	1/16W 4.7K	1	
R7608-10	ERJ3GEYJ223V	1/16W 22K	3	D0GB223JA002
R7611	ERJ3GEYJ101V	1/16W 100	1	
R7613,14	ERJ3GEYJ101V	1/16W 100	2	
R7616	ERJ3GEY0R00V	1/16W 0	1	
R7617	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7618	ERJ3GEYJ472V	1/16W 4.7K	1	
R7619-23	ERJ3GEYJ223V	1/16W 22K	5	D0GB223JA002
R7624	ERJ3GEYJ101V	1/16W 100	1	
R7625	ERDS2TJ392T	1/4W 3.9K	1	
R7701	ERJ3GEY0R00V	1/16W 0	1	(EB)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7702	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7703	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002 (EB)
R7704,05	ERJ3GEYJ101V	1/16W 100	2	
R7706	ERJ3GEYJ100V	1/16W 10	1	(EB)
R7708	ERJ3GEYJ101V	1/16W 100	1	(EB)
R7708	ERJ3GEYJ471V	1/16W 470	1	(EG)(GN)
R7709	ERJ3GEYJ101V	1/16W 100	1	(EB)
R7709	ERJ3GEYJ471V	1/16W 470	1	(EG)(GN)
R7710,11	ERG2SJ561	2W 560	2	
R7712	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R7713,14	ERJ3GEYJ151V	1/16W 150	2	
R7715,16	ERJ3GEYJ101V	1/16W 100	2	
R7718-21	ERJ3GEYJ154V	1/16W 150K	4	
R7722	ERJ3GEYJ682V	1/16W 6.8K	1	D0GB682JA002
R7723	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R7724	ERJ3GEYJ154V	1/16W 150K	1	
R7725	ERJ3GEYJ682V	1/16W 6.8K	1	D0GB682JA002
R7726	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R7727	ERJ3GEYJ154V	1/16W 150K	1	
R7801	ERJ3RBD122V	1/16W 1.2K	1	
R7802	ERJ3RBD152V	1/16W 1.5K	1	
R7803	ERJ3RBD122V	1/16W 1.2K	1	
R7804	ERJ3RBD152V	1/16W 1.5K	1	
R7805	ERJ3RBD222V	1/16W 2.2K	1	
R7806	ERJ3RBD332V	1/16W 3.3K	1	
R7807	ERJ3RBD562V	1/16W 5.6K	1	
R7808	ERJ3RBD113V	1/16W 11K	1	
R7809	ERJ3RBD333V	1/16W 33K	1	
R7810	ERJ3RBD122V	1/16W 1.2K	1	
R7811	ERJ3RBD152V	1/16W 1.5K	1	
R7812	ERJ3RBD222V	1/16W 2.2K	1	
R7813	ERJ3RBD332V	1/16W 3.3K	1	
R7814	ERJ3RBD562V	1/16W 5.6K	1	
R7815	ERJ3RBD113V	1/16W 11K	1	
R7816	ERJ3RBD333V	1/16W 33K	1	
R7817,18	ERDS2FJ221	1/4W 220	2	
R7819	ERJ3RBD222V	1/16W 2.2K	1	
R7820	ERJ3RBD332V	1/16W 3.3K	1	
R7821	ERJ3RBD562V	1/16W 5.6K	1	
R7822	ERJ3RBD113V	1/16W 11K	1	
R9001	ERJ3GEYJ102V	1/16W 1K	1	
R9004	ERJ3GEYJ470V	1/16W 47	1	
R9008-10	ERJ3GEY0R00A	1/16W 0	3	
R9015	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R9016	ERJ3GEYJ102V	1/16W 1K	1	
R9902	ERJ3GEYJ102V	1/16W 1K	1	
R9903	ERJ3GEYF823V	1/16W 82K	1	
R9904	ERJ3GEYJ392V	1/16W 3.9K	1	
R9905	ERJ3GEYF103V	1/16W 10K	1	
R9906	ERJ3RBD471V	1/16W 470	1	
R9907	ERJ3RED300V	1/16W 30	1	
R9908	ERJ3RBD102V	1/16W 1K	1	
R9913	ERDS2FJ271	1/4W 270	1	
R37001-04	ERJ3RED560	1/16W 56	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R37005	ERJ3RBD512	1/16W 5.1K	1	
R37006	ERJ3GEYJ105V	1/16W 1M	1	
R37007	ERJ3RBD622	1/16W 6.2K	1	
R37008	ERJ3RBD181V	1/16W 180	1	
R37009	ERJ3GEYJ102V	1/16W 1K	1	
R37010-15	ERJ3GEY0R00A	1/16W 0	6	
R37016	ERJ3GEYJ102V	1/16W 1K	1	
R37017	ERJ3GEYJ472V	1/16W 4.7K	1	
R37018	ERJ3GEYJ105V	1/16W 1M	1	
R37019,20	ERJ3GEY0R00A	1/16W 0	2	
R37021	ERJ3GEYJ102V	1/16W 1K	1	
R37022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37024-27	ERJ3GEYJ470V	1/16W 47	4	
R37028	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R37029,30	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R37040-43	ERJ3GEYJ470V	1/16W 47	4	
R37044	ERJ3GEYJ221V	1/16W 220	1	
R37045	ERJ3GEYJ470V	1/16W 47	1	
R37046	ERJ3GEYJ102V	1/16W 1K	1	
R37047,48	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R37049	ERJ3GEYJ101V	1/16W 100	1	
R37050-52	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R37053	ERJ3GEY0R00A	1/16W 0	1	
R37054	ERJ3GEYJ472V	1/16W 4.7K	1	
R37055	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R37056	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37057,58	ERJ3GEY0R00A	1/16W 0	2	
R37060	ERJ3GEYJ220V	1/16W 22	1	
R37061,62	ERJ3GEY0R00A	1/16W 0	2	
R37063	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37064	ERJ3GEY0R00A	1/16W 0	1	
R37065	ERJ3GEYJ101V	1/16W 100	1	
R37066	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37067	ERJ3GEY0R00A	1/16W 0	1	
R37068,69	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R37100	ERJ3GEYJ220V	1/16W 22	1	
R37103	ERJ3GEYJ220V	1/16W 22	1	
R37104-06	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R37109,10	ERJ3GEYJ101V	1/16W 100	2	
R50001	ERJ3GEYJ220V	1/16W 22	1	
R50002,03	ERJ3GEYJ470V	1/16W 47	2	
R50004	ERJ3GEYJ220V	1/16W 22	1	
R50005,06	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R50007-10	ERJ3GEYJ220V	1/16W 22	4	
R50012	ERJ3RBD122V	1/16W 1.2K	1	
R50013	ERJ3RBD273V	1/16W 27K	1	
R50014	ERJ3GEY0R00A	1/16W 0	1	
R50015	ERJ3RBD153V	1/16W 15K	1	
R50016	ERJ3GEY0R00A	1/16W 0	1	
R50017	ERJ3GEYJ390	1/16W 39	1	
R50018-20	ERJ3GEY0R00A	1/16W 0	3	
R50021	ERJ3GEYJ220V	1/16W 22	1	
R50022	ERJ3GEYJ102V	1/16W 1K	1	
R50023	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R50024	ERJ3RED220	1/16W 22	1	
R50025	ERJ3RED750V	1/16W 75	1	
R50026	ERJ3GEYJ102V	1/16W 1K	1	
R50027	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50030	ERJ3RED750V	1/16W 75	1	
R50031	ERJ3GEYJ102V	1/16W 1K	1	
R50032	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50033	ERJ3GEY0R00A	1/16W 0	1	
R50034	ERJ3RED750V	1/16W 75	1	
R50035	ERJ3GEYJ102V	1/16W 1K	1	
R50036	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50037	ERJ3GEY0R00A	1/16W 0	1	
R50038	ERJ3RED750V	1/16W 75	1	
R50039	ERJ3GEYJ102V	1/16W 1K	1	
R50040	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50042	ERJ3RED750V	1/16W 75	1	
R50043	ERJ3RBD273V	1/16W 27K	1	
R50044-47	ERJ3GEY0R00A	1/16W 0	4	
R50048	ERJ3RBD182V	1/16W 1.8K	1	
R50049	ERJ3RBD223V	1/16W 22K	1	
R50050,51	ERJ3GEY0R00A	1/16W 0	2	
R50052-56	ERJ3GEYJ470V	1/16W 47	5	
R50057	ERJ3GEY0R00A	1/16W 0	1	
R50058,59	ERJ3GEYJ220V	1/16W 22	2	
R50060	ERJ3GEYJ470V	1/16W 47	1	
R50061	ERJ3GEY0R00A	1/16W 0	1	
RA3201-04	D1H82204A024	RESISTOR-RESISTOR	4	
RA3205-08	D1H83304A024	RESISTOR-RESISTOR	4	
RA3209,10	D1H82204A024	RESISTOR-RESISTOR	2	
RA3401-16	D1H82204A024	RESISTOR-RESISTOR	16	
RA3419-24	D1H81034A024	RESISTOR-RESISTOR	6	
RA3425-27	D1H82204A024	RESISTOR-RESISTOR	3	
RA3433	D1H82204A024	RESISTOR-RESISTOR	1	
RA3435,36	D1H82204A024	RESISTOR-RESISTOR	2	
RA3437,38	D1H81044A024	RESISTOR-RESISTOR	2	
RA3439-41	D1H82204A024	RESISTOR-RESISTOR	3	
RA3442-46	D1H81044A024	RESISTOR-RESISTOR	5	
RA6001-04	D1H84704A024	RESISTOR-RESISTOR	4	
RA6005	D1H83334A024	RESISTOR-RESISTOR	1	
RA6006	D1H84704A024	RESISTOR-RESISTOR	1	
RA6007	D1H83324A024	RESISTOR-RESISTOR	1	
RA6008	D1H83334A024	RESISTOR-RESISTOR	1	
RA6009-12	D1H83304A024	RESISTOR-RESISTOR	4	
RA6013-18	D1H84704A024	RESISTOR-RESISTOR	6	
RA6019,20	D1H83304A024	RESISTOR-RESISTOR	2	
RA6021	D1H81034A024	RESISTOR-RESISTOR	1	
RA6023	D1H84704A024	RESISTOR-RESISTOR	1	
RA6029	D1H86804A024	RESISTOR-RESISTOR	1	
RA6030-32	D1H83304A024	RESISTOR-RESISTOR	3	
RA6037	D1H83334A024	RESISTOR-RESISTOR	1	
RA6038	D1H83324A024	RESISTOR-RESISTOR	1	
RA6039	D1H84704A024	RESISTOR-RESISTOR	1	
RA6040-51	D1H83304A024	RESISTOR-RESISTOR	12	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RA6052	D1H84704A024	RESISTOR-RESISTOR	1	
RA6053-60	D1H83304A024	RESISTOR-RESISTOR	8	
RA6061,62	D1H83334A024	RESISTOR-RESISTOR	2	
RA6063-66	D1H84704A024	RESISTOR-RESISTOR	4	
RA6072	D1H84704A024	RESISTOR-RESISTOR	1	
RA6082	D1H83334A024	RESISTOR-RESISTOR	1	
RA6084	D1H83334A024	RESISTOR-RESISTOR	1	
RA6701-06	D1H84704A024	RESISTOR-RESISTOR	6	
RA6708	D1H83324A024	RESISTOR-RESISTOR	1	
RA6709-11	D1H81034A024	RESISTOR-RESISTOR	3	
RA6712	D1H84704A024	RESISTOR-RESISTOR	1	
RA6713	D1H81034A024	RESISTOR-RESISTOR	1	
RA6714	D1H82224A024	RESISTOR-RESISTOR	1	
RA6715-18	D1H83324A024	RESISTOR-RESISTOR	4	
RA6719-23	D1H84704A024	RESISTOR-RESISTOR	5	
RA6724	D1H81034A024	RESISTOR-RESISTOR	1	
RA6725-30	D1H84704A024	RESISTOR-RESISTOR	6	
RA6731-36	D1H86804A024	RESISTOR-RESISTOR	6	
RA6737,38	D1H81034A024	RESISTOR-RESISTOR	2	
RA6739,40	D1H83304A024	RESISTOR-RESISTOR	2	
RA6741	D1H84704A024	RESISTOR-RESISTOR	1	
RA37001	D1H81034A024	RESISTOR-RESISTOR	1	
RA37002	D1H81034A024	RESISTOR-RESISTOR	1	
RA37003	D1H81034A024	RESISTOR-RESISTOR	1	
RA37006	D1H82204A024	RESISTOR-RESISTOR	1	
RA37007	D1H82204A024	RESISTOR-RESISTOR	1	
RA37008	D1H82204A024	RESISTOR-RESISTOR	1	
RA37009	D1H82204A024	RESISTOR-RESISTOR	1	
RA37010	D1H82204A024	RESISTOR-RESISTOR	1	
RA37011	D1H82204A024	RESISTOR-RESISTOR	1	
RA37012	D1H82204A024	RESISTOR-RESISTOR	1	
RA37013	D1H82204A024	RESISTOR-RESISTOR	1	
RA37014	D1H82204A024	RESISTOR-RESISTOR	1	
RA50009	D1H82204A024	RESISTOR-RESISTOR	1	
RA50010	D1H82204A024	RESISTOR-RESISTOR	1	
RA50011	D1H82204A024	RESISTOR-RESISTOR	1	
RA50012	D1H82204A024	RESISTOR-RESISTOR	1	
RA50013	D1H82204A024	RESISTOR-RESISTOR	1	
RA50014	D1H82204A024	RESISTOR-RESISTOR	1	
RA50015	D1H82204A024	RESISTOR-RESISTOR	1	
RA50016	D1H82204A024	RESISTOR-RESISTOR	1	
RA50017	D1H81034A024	RESISTOR-RESISTOR	1	
RA50018	D1H82204A024	RESISTOR-RESISTOR	1	
RA50019	D1H82204A024	RESISTOR-RESISTOR	1	
RA50020	D1H82204A024	RESISTOR-RESISTOR	1	
RA50021	D1H82204A024	RESISTOR-RESISTOR	1	
RA50022	D1H82204A024	RESISTOR-RESISTOR	1	
RA50023	D1H82204A024	RESISTOR-RESISTOR	1	
RA50024	D1H82204A024	RESISTOR-RESISTOR	1	
RA50025	D1H82204A024	RESISTOR-RESISTOR	1	
RA50026	D1H84704A024	RESISTOR-RESISTOR	1	
RA50027	D1H84704A024	RESISTOR-RESISTOR	1	
RA50028	D1H84704A024	RESISTOR-RESISTOR	1	
RA50029	D1H84704A024	RESISTOR-RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RX6801-06	D1H83304A024	RESISTOR-RESISTOR	6	
RX6807	D1H84734A024	RESISTOR-RESISTOR	1	
RX6808,09	D1H83304A024	RESISTOR-RESISTOR	2	
RX6810	D1H84734A024	RESISTOR-RESISTOR	1	
RX6811,12	D1H83304A024	RESISTOR-RESISTOR	2	
RX6818-20	D1H83304A024	RESISTOR-RESISTOR	3	
S7001	EVQ11G07K	SWITCH(POWER)	1	
S7002	K0H1BA000332	SWITCH(HDD)	1	
S7801	K0L1BA000056	SWITCH(TRAY)	1	
S7802	EVQ11G07K	SWITCH(RETURN)	1	
S7803	EVQ11G07K	SWITCH(PAUSE)	1	
S7804	EVQ11G07K	SWITCH(PLAY)	1	
S7805	EVQ11G07K	SWITCH(OPEN/CLOSE)	1	
S7806	EVQ11G07K	SWITCH(CH UP)	1	
S7807	EVQ11G07K	SWITCH(SKIP F)	1	
S7808	EVQ11G07K	SWITCH(FUNCTIONS)	1	
S7809	EVQ11G07K	SWITCH(TIMER REC)	1	
S7810	EVQ11G07K	SWITCH(STOP)	1	
S7811	EVQ11G07K	SWITCH(CH DOWN)	1	
S7812	EVQ11G07K	SWITCH(SKIP R)	1	
S7813	EVQ11G07K	SWITCH(EXT LINK)	1	
S7814	EVQ11G07K	SWITCH(REC)	1	
S7815	EVQ11G07K	SWITCH(REC MODE)	1	
S7816	EVQ11G07K	SWITCH(TIME SLIP)	1	
S7817	K0H1BA000332	SWITCH(DVD)	1	
S7901	K0C115A00002	SWITCH(ENTER)	1	
T001	ETB28BF1K8A	TRANSFORMER	1	
T0701	EQV5EC082P	TRANSFORMER	1	(EG)(GN) ⚠
T0701	EQV5EC083P	TRANSFORMER	1	(EB) ⚠
T7501	ETS13TB119AP	TRANSFORMER	1	⚠
T37001	J0JBD0000030	TRANSFORMER	1	⚠
TH001	NC21F104J	THERMISTOR	1	
TU7701	ENG47327G1	TUNER PACK	1	(EG)(GN)
TU7701	ENG47328G1	TUNER PACK	1	(EB)
VC3516,17	ECRLA030E53R	VR	2	
VR102	EVMEASA01B52	V.R.	1	
VR0701	EVNCYAA03B14	10K	1	
VR3501	EVMECSA00B14	V.RESISTOR 10K	1	
W2	ERJ3GEY0R00V	1/16W 0	1	
W6,W7	ERJ3GEY0R00V	1/16W 0	2	
W10,11	ERJ3GEY0R00V	1/16W 0	2	
W13	ERJ3GEY0R00V	1/16W 0	1	
W20,21	ERJ3GEY0R00V	1/16W 0	2	
W23	ERJ3GEY0R00V	1/16W 0	1	
W237	ERJ3GEY0R00V	1/16W 0	1	

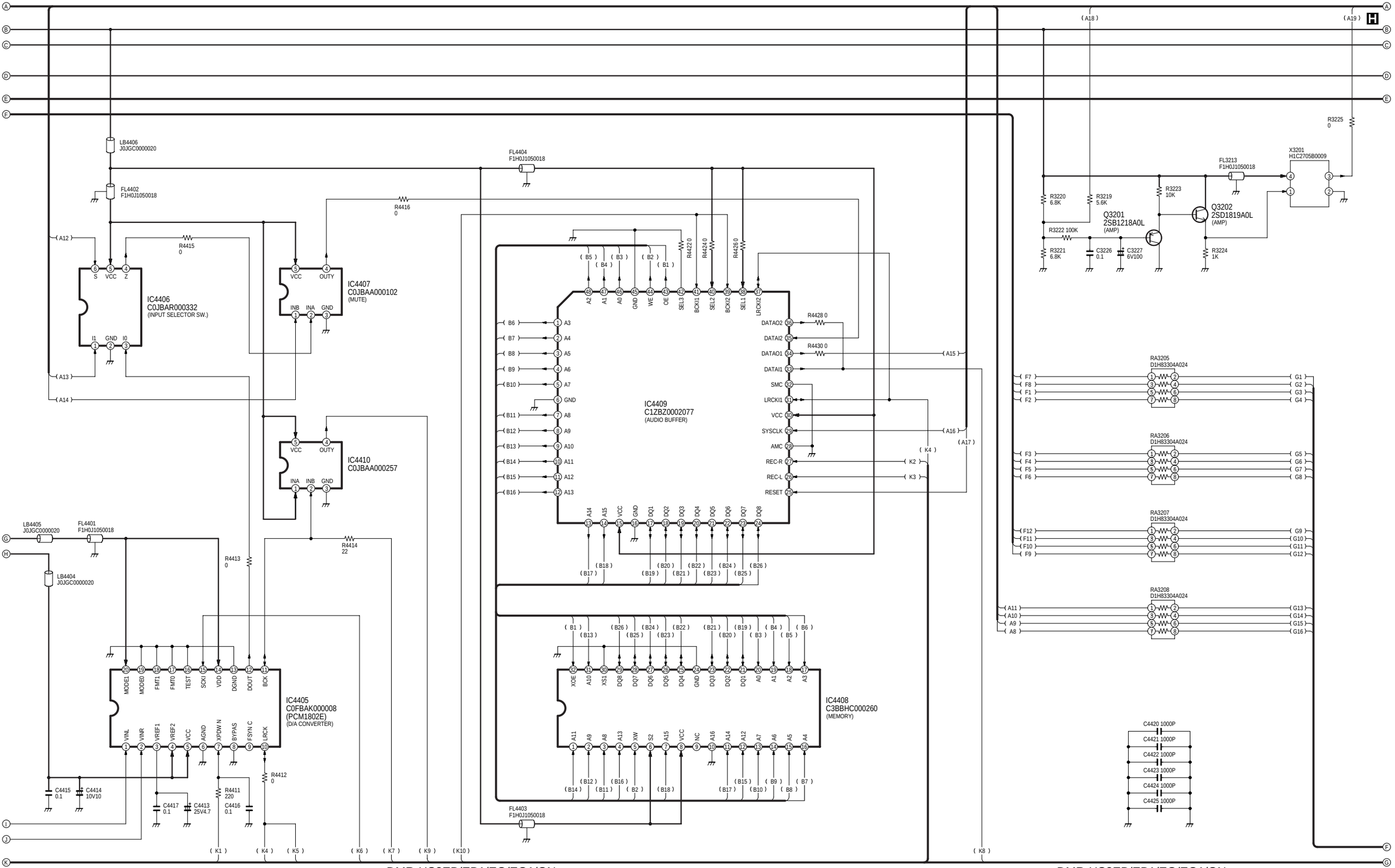
W237	ERJ3GEF10R0V	1/10W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
W444	ERJ3GEY0R00V	1/16W 0	1	
W449	ERJ3GEY0R00V	1/16W 0	1	
W501	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W501	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W502	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W502	ERJ8GEY0R00V	1/8W 0	1	VIF DECODER P.C.B.
W503	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W503	ERJ8GEY0R00V	1/8W 0	1	VIF DECODER P.C.B.
W504	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W504	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W505	ERJ3GEY0R00V	1/16W 0	1	
W506	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W506	ERJ8GEY0R00V	1/8W 0	1	VIF DECODER P.C.B.
W507	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W507	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W508	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W508	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W509	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W509	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W510	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W510	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W511	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W511	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W512	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W512	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W513	ERJ6GEY0R00V	1/10W 0	1	
W514	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W514	ERJ8GEY0R00V	1/8W 0	1	VIF DECODER P.C.B.
W515	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W515	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W516	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W516	ERJ8GEY0R00V	1/8W 0	1	VIF DECODER P.C.B.
W517	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W517	ERJ8GEY0R00V	1/8W 0	1	VIF DECODER P.C.B.
W518-21	ERJ3GEY0R00V	1/16W 0	4	
W522	ERJ6GEY0R00V	1/10W 0	1	
X0701	VLF1416	FILTER	1	J0B4045A0002 (EG)(GN)
X0701	VLF1417	FILTER	1	J0B4155A0003 (EB)
X0704	VLF1493	CRYSTAL OSCILLATOR	1	(EG)(GN)
X0704	VLF1495	CRYSTAL OSCILLATOR	1	(EB)
X3201	H1C2705B0009	CRYSTAL OSCILLATOR	1	
X3401	H2D400500001	CRYSTAL OSCILLATOR	1	
X3501	H0D443400037	CRYSTAL OSCILLATOR	1	
X6001	H0J300500005	CRYSTAL OSCILLATOR	1	
X7301	H0D245500016	CRYSTAL OSCILLATOR	1	
X7501	H0D443400035	CRYSTAL OSCILLATOR	1	
X7502	H0A327200078	CRYSTAL OSCILLATOR	1	
X7503	VSX1043-T	CRYSTAL OSCILLATOR	1	H0D100500006
X37001	H0J245500020	CRYSTAL OSCILLATOR	1	H0J245500025
Z002	ERZVGAD471	V.R.	1	
ZA3901-04	VMC1450	EARTH PLATE	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
ZA7001	VJR0978	EARTH ANGLE	1	K9ZZ00000424
ZA9001	VJR0978	EARTH ANGLE	1	K9ZZ00000424
ZA9003	VJR0978	EARTH ANGLE	1	K9ZZ00000424
ZA9004	VJR0978	EARTH ANGLE	1	K9ZZ00000424
ZA9005	VJR0978	EARTH ANGLE	1	K9ZZ00000424
ZD001	MA8270	DIODE	1	
ZD002	RD91EB	DIODE	1	
ZD003,04	MA8300	DIODE	2	
ZD101	MA8039	DIODE	1	
ZD102	MA8027	DIODE	1	
ZD104	MA8051	DIODE	1	
ZD301,02	MAZ8051	DIODE	2	
ZD304	MA8051	DIODE	1	

19. Schematic Diagram for printing with A4

H020900000HP



DMR-HS2EB/EB1/EG/EG1/GN
AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)

DMR-HS2EB/EB1/EG/EG1/GN
AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)

DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)

IC3203
MN673744
(VAD CON)

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)

DMR-HS2EB/EB1/EG/EG1/GN
AV-Input Section(Digital P.C.B.(4/7))
Schematic Diagram(AI)

V EE SIGNAL
A EE SIGNAL

IC3201 16bit/16M SDRAM
IC3401 32bit/64M SDRAM
IC3403 128M-SDRAM
IC3404 128M-SDRAM
IC3402 (AV ENC)
IC3405 (RTSC)
IC3202 (AP)
IC3203 (VAD CON)
SDRAM I/F
HOST I/F
27MHz
384fs
VIDEO ENC
AUDIO ENC
STREAM PS I/F
RTSC
MICON I/F
DVD RAM DRIVE
HDD
X3401 (40MHz OSC)
TC 1 TC 2 TC 3 TC 4 TC 5 TC 6 TC 7
TC 10 -1/2 TC 11 -1/2 TC 12 -1/2 TC 12 -3

PP9901 P9001 55 55 CPSVIN DM
PP9901 P9001 57 57 CPNYIN DM
PP9901 P9001 59 59 CPNCIN DM
C OUT Y OUT CLPDC
ADC ADC 3D Y/C C DEC TBC FRAME SYNCHRO.
1/4 CC WSS HOST I/F

DV INPUT JACK
IC37002 (8bit CONVERTER)
IC37001 (DV DEC.)
IC50012 (DV I/O)
TPA+ TPA- TPB+ TPB- D0 D7 DVSEL R656 DV SW OE2
TC 22 TC 23 TC 24

IC4404 (SW)
IC4405 (AUDIO ADC)
IC4409 (BUFFER)
PP9901 P9001 72 72 AADC L
PP9901 P9001 74 74 AADC R
VINL VINR DOUT

IC50010 (AUDIO 2CH DAC)
IC6701 (GLUE)
IC50003 (AV DEC)
PP9901 P9001 78 78 MIXLOUT DM
PP9901 P9001 8 80 MIXROUT DM
VOUTL VOUTR DATA DA1DT
PP9901 P9001 66 66 IECOUT
DMIX A-MIX OUT ADOUT3
DECIEC IEC958OUT IECOUT
CSS CPRM CPPM AUDIO WMDET AV-DEC MCPIO POST PROS OSD NTSC/PAL ENCODER DAC DAC DAC DAC DAC

IIC
SERIAL I/F
PARALLEL I/F
TC 13 -1/2 TC 17 TC 8 TC 9 TC 14 -1/2 TC 16 TC 18 -1/2 TC 19 -1/2 TC 20 -1/2 TC 21 -1/2

SDRAM I/F HOST I/F
DATA/ADDRESS BUS LINE TC 10 -1/2 ~ 14 -1/2
SA0-SA25 ADDRESS BUS LINE
SD0-SD31 DATA BUS LINE
TC 18 -1/2 ~ 21 -1/2 ,TC 27

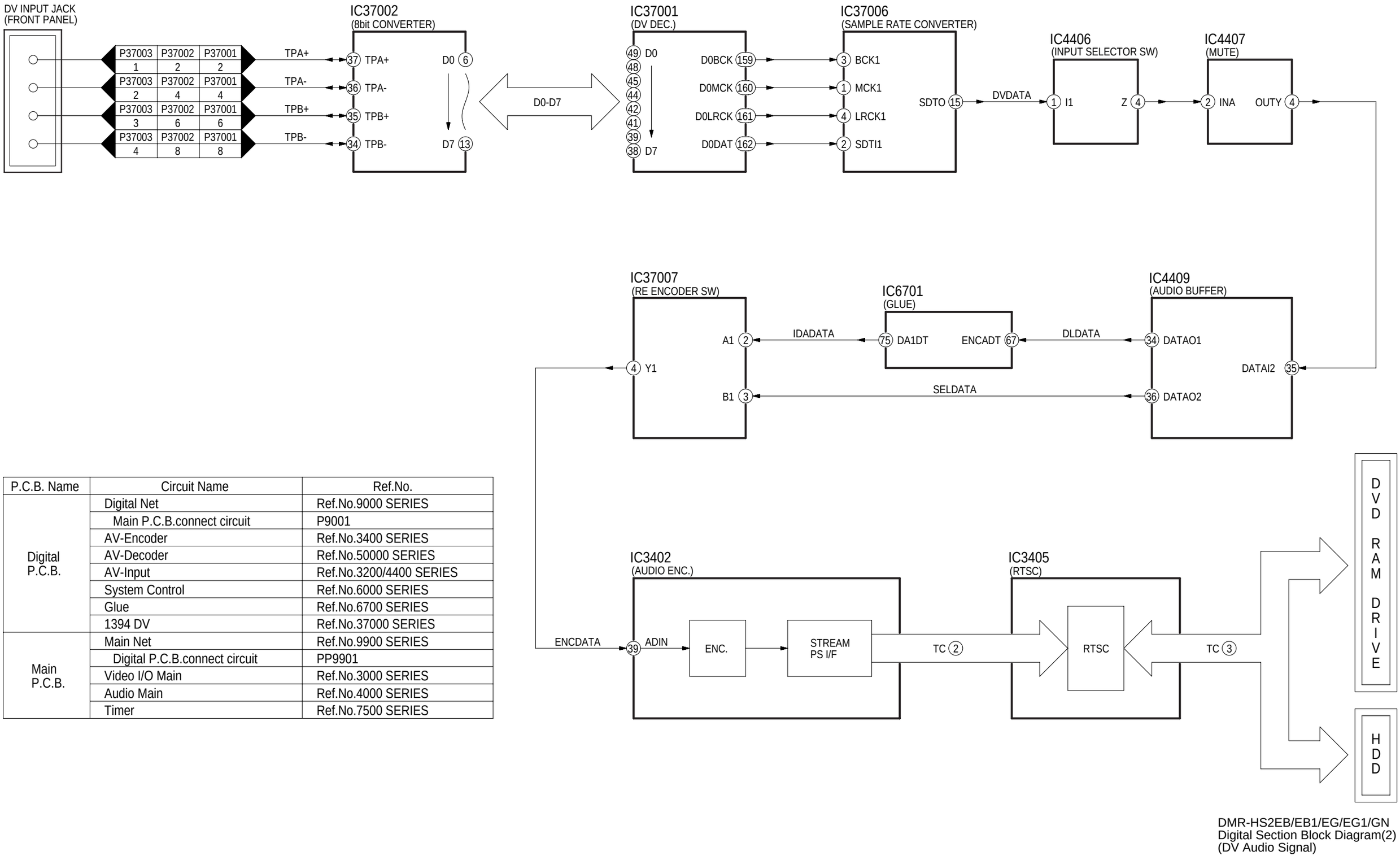
64Mbit SDRAM IC50002
64Mbit SDRAM IC50004
BUFFER IC6002(DATA), IC6003(ADDRESS)
LOADER IC6007
WORKING MEMORY IC6008
WORKING MEMORY IC6001
TC 15
MAIN CPU IC6005
ECC IC6703
DATA STRAGE IC6707

Y OUT DM C OUT DM GPY OUT DM BPB OUT DM RPR OUT DM
P9001 PP9901 49 49 / 51 51 / 43 43 / 45 45 / 47 47

IC6705 BUFFER TC 25 TC 26
IC6706 BUFFER TC 28
IC6802 PC Card
TC 27

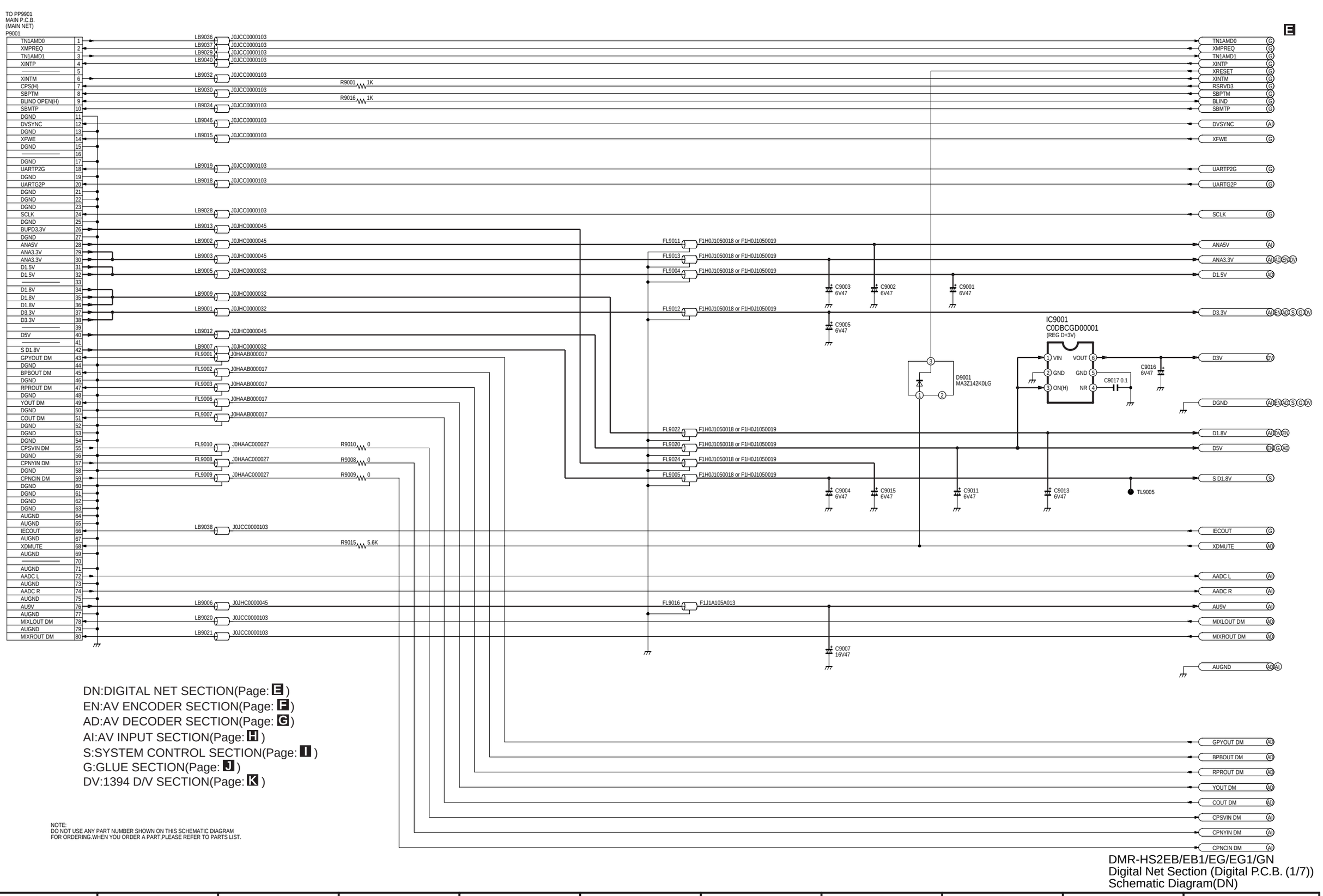
P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	P9001
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
Main P.C.B.	Main Net	Ref.No.9900 SERIES
	Digital P.C.B.connect circuit	PP9901
	Video I/O Main	Ref.No.3000 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500 SERIES

DMR-HS2EB/EB1/EG/EG1/GN
Digital Section Block Diagram(1)



P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	P9001
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
Main P.C.B.	Main Net	Ref.No.9900 SERIES
	Digital P.C.B.connect circuit	PP9901
	Video I/O Main	Ref.No.3000 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500 SERIES

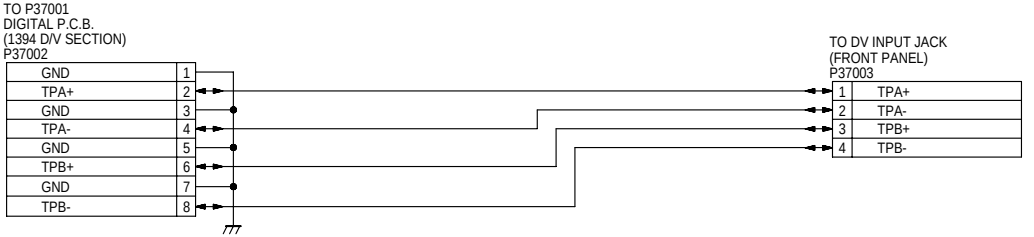
DMR-HS2EB/EB1/EG/EG1/GN
Digital Section Block Diagram(2)
(DV Audio Signal)



DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

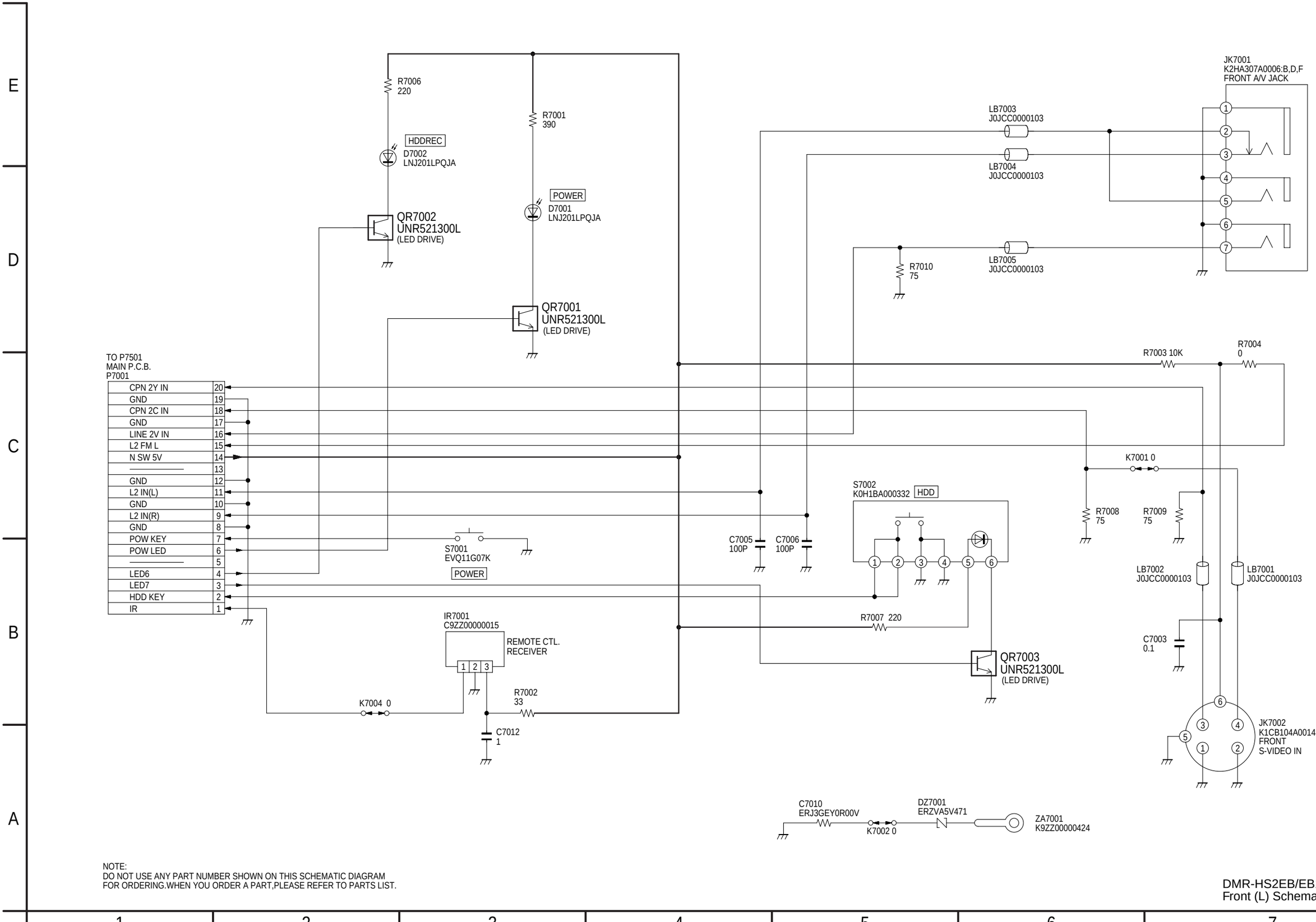
DMR-HS2EB/EB1/EG/EG1/GN
Digital Net Section (Digital P.C.B. (1/7))
Schematic Diagram(DN)



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

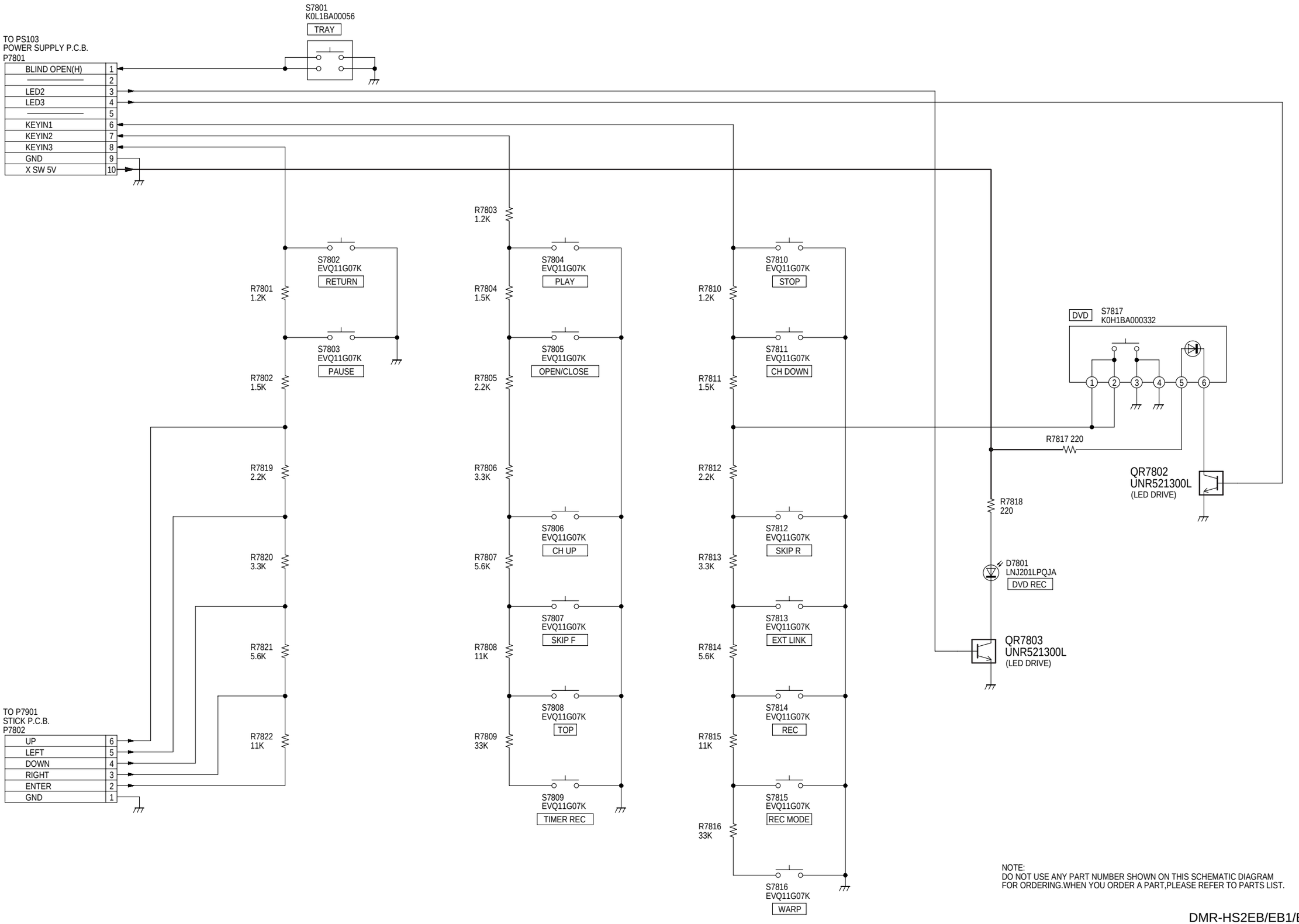
DMR-HS2EB/EB1/EG/EG1/GN
DV Input Jack Schematic Diagrm

C
B
A
1
2
3
4



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
Front (L) Schematic Diagram



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

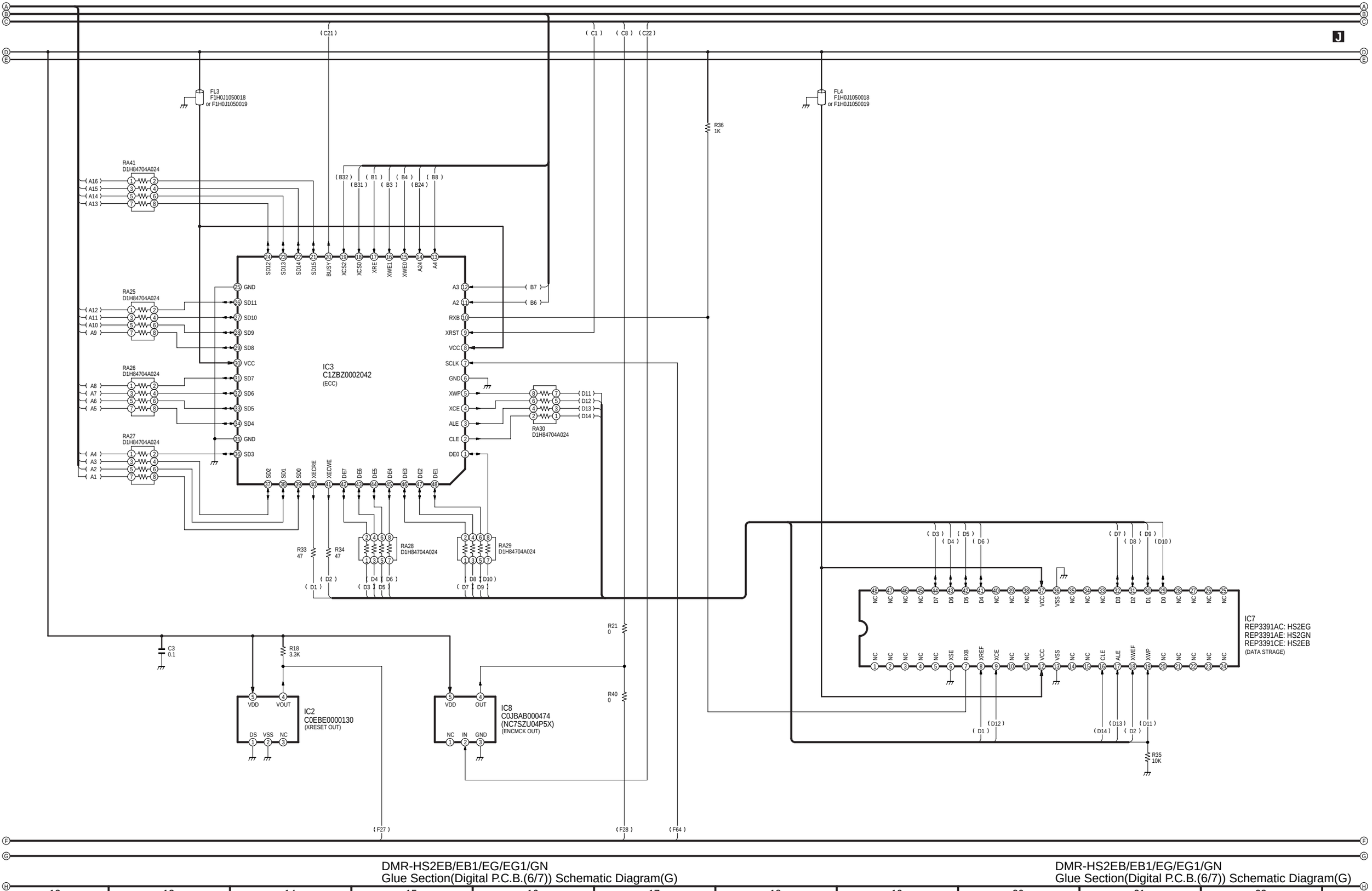
DMR-HS2EB/EB1/EG/EG1/GN
Front (R) Schematic Diagram

DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)

IC1
C1ZBZ0001925
or C1ZBZ0002094
(GLUE)

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)


J
FL3
F1H0J1050018
or F1H0J1050019
FL4
F1H0J1050018
or F1H0J1050019
R36
1K
RA41
D1H84704A024
RA25
D1H84704A024
RA26
D1H84704A024
RA27
D1H84704A024
IC3
C1ZBZ0002042
(ECC)
RA30
D1H84704A024
RA28
D1H84704A024
RA29
D1H84704A024
R33
47
R34
47
C3
0.1
R18
3.3K
IC2
C0EBE0000130
(XRESET OUT)
R21
0
R40
0
IC8
C0JBAB000474
(NC7SZU04P5X)
(ENCMCK OUT)
IC7
REP3391AC: HS2EG
REP3391AE: HS2GN
REP3391CE: HS2EB
(DATA STRAGE)
R35
10K
DMR-HS2EB/EB1/EG/EG1/GN
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)
DMR-HS2EB/EB1/EG/EG1/GN
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)
12
13
14
15
16
17
18
19
20
21
22

DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)

FL7
F1H0J1050018
or F1H0J1050019

C1
0.1

C2
0.1

RA39
D1H83304A024

RA40
D1H83304A024

R1 10K
R2 4.7K
R3 10K
R4 4.7K
R5 10K
R6 4.7K
R7 10K
R10 4.7K

Q1 2SD0601A0L (BUFFER)
Q2 2SD0601A0L (BUFFER)
Q3 2SD0601A0L (BUFFER)
Q4 2SD0601A0L (BUFFER)

IC6
C0JBAZ001406
(PC CARD I/F DATA BUFFER)

RA38
D1H81034A024

RA37
D1H81034A024

RA35
D1H86804A024

RA36
D1H86804A024

IC5
C0JBAZ001475
or C0JBAZ001232
or C0JBAZ001918
(16Bit BUFFER/LINE DRIVER)

RA31
D1H86804A024

RA32
D1H86804A024

RA33
D1H86804A024

RA34
D1H86804A024

TO P6801
PC CARD P.C.B.
P6701

1	GND
2	DP16
3	DP17
4	GND
5	DP18
6	DP19
7	GND
8	DP20
9	DP21
10	GND
11	DP22
12	DP23
13	GND
14	AP0
15	AP1
16	AP2
17	AP3
18	GND
19	AP4
20	AP5
21	AP6
22	AP7
23	GND
24	AP8
25	AP9
26	AP11
27	AP25
28	GND
29	RSVDO1
30	RSVDO2
31	RSVDO3
32	PRXW
33	RSVDI1
34	RSVDI2
35	XRST
36	GND
37	SYSCLK
38	GND
39	D5V
40	XPWE
41	D5V
42	XPRE
43	D5V
44	XPCS
45	D5V
46	XPDK
47	D3.3V
48	D3.3V
49	XGIRQ2
50	XGIRQ3

C5	XAIOFCS	AI
C3	XDVCS	DV
C6	XDECCS	AD
C7	XENCCS	EN
C4	XRTSCS	EN
C22	ENCMCK	AD
C14	DECIEC	AD
C15	DMIX	AD
C16	LRCK	AD
C19	SRCK	AD
C13	IECOUT	DN
C10	1DADATA	AD DV
C11	1DABCK	AD DV
C12	1DALRCK	AD DV
C17	DLDATA	AI
C9	ADBCK	AI
C18	ADLRCK	AI
C21	XIRQ0	S
	UARTP2G	DN
	XINTP	DN
	SCLK	DN
	SBPTM	DN
F62	CLK27A4	AD
F56	MRWW	AI
F55	MRWR	AI
F50	FRP	DN
F49	SSP	DV
F59	XDVDK	DV
F60	XDECDK	AD
F63	XRTSCDK	EN
F53	XGIRQ5	EN
F58	XSPTDK	S
	XDK	S
F10	XGINT1	S
F11	XGINT2	S
F12	XSSP	S
F24	XFROMCS1	S
F25	XFROMCS2	S
F18	XADC PD	AI
F17	XATRESET	EN
F16	X1DA LP	AD
F20	CPS(H)	AI
F38	XFWE	DN
F46	XMPREQ	DN
F47	SBMTP	DN
F48	XINTM	DN
F37	UARTG2P	DN
F34	ENCBUSY	EN
F36	UARTM2G	S
F40	UARTG2M	S
F35	XSAS	S
F54	XGIRQ4	DV
F65	PCSYSCLK	S
F44	TN1AMD1	DN
F45	TN1AMD0	DN
G16	MSD16	S
G15	MSD17	S
G14	MSD18	S
G13	MSD19	S
G12	MSD20	S
G11	MSD21	S
G10	MSD22	S
G9	MSD23	S
G8	MSD24	S
G7	MSD25	S
G6	MSD26	S
G5	MSD27	S
G4	MSD28	S
G3	MSD29	S
G2	MSD30	S
G1	MSD31	S

DIGITAL JIG

P6002

1	SEL
2	SEL
3	MSDTX
4	MSDRX
5	D 3.3V
6	XSCINTRQ
7	SXMN103
8	MMRXW
9	MMXOE
10	GND
11	XMMCS7
12	XMMCS6
13	GND
14	XMMCS5
15	XMMCS4
16	GND
17	XMMCS3
18	XMMCS2
19	GND
20	XMMCS1
21	XMMCS0
22	GND
23	MMA25
24	MMA24
25	MMA23
26	MMS22
27	MMA21
28	MMA20
29	MMA19
30	MMA18
31	MMA17
32	MMA16
33	MMA15
34	MMA14
35	MMA13
36	MMA12
37	MMA11
38	MMA10
39	GND
40	MMA9
41	MMA8
42	MMA7
43	MMA6
44	MMA5
45	MMA4
46	MMA3
47	MMA2
48	MMA1
49	MMA0
50	GND
51	BW
52	BW
53	XNMI
54	XRESET
55	D3.3V
56	SSYSCLK
57	GND
58	———
59	XMMDK
60	GND
61	MMXWE3
62	MMXWE2
63	GND
64	MMXWE1
65	MMXWE0
66	GND
67	MMD31
68	MMD30
69	MMD29
70	MMD28
71	MMD27
72	MMD26
73	MMD25
74	MMD24
75	MMD23
76	MMD22
77	MMD21
78	MMD20
79	MMD19
80	MMD18
81	MMD17
82	MMD16
83	GND
84	MMD15
85	MMD14
86	MMD13
87	MMD12
88	MMD11
89	MMD10
90	MMD9
91	MMD8
92	MMD7
93	MMD6
94	MMD5
95	MMD4
96	MMD3
97	MMD2
98	MMD1
99	MMD0
100	GND

P6001

1	XDIAG
2	XRESET
3	MSORX
4	GND
5	D 3.3V
6	MSOTX

P6003

1	———
2	D3.3V
3	XRESET
4	GND
5	TDI
6	GND
7	TD0
8	GND
9	TMS
10	GND
11	GND
12	TCK
13	GND
14	GND
15	TRCD0
16	GND
17	TRCD1
18	GND
19	TRCD2
20	GND
21	TRCD3
22	GND
23	TRCD4
24	GND
25	TRCD5
26	GND
27	TRCD6
28	GND
29	TRCD7
30	GND
31	TRCST
32	GND
33	TRSTMOD
34	GND
35	EXTRG
36	GND
37	GND
38	TRCCLK
39	D3.3V
40	D3.3V

U/V TUNER

TU7701

1	+B
2	AUDIO IN
3	DATA
4	M+B
5	CLK
6	VIDEO IN
7	-
8	-
9	-
10	-
11	CLK
12	DATA
13	GND
14	BM+5V
15	-
16	BT REG30V
17	IF OUT
18	IF IN

DU7701

19	-
20	-
21	AUDIO OUT
22	SIF OUT
23	AFC(S)
24	VIDEO OUT
25	+B
26	+12V
27	GND

VIF DECODER P.C.B.

PS3503 / PP3003

R/C IN	1	1	R/C IN
GND	2	2	GND
G IN	3	3	G IN
GND	4	4	GND
B IN	5	5	B IN
GND	6	6	GND
SCART VIN	7	7	SCART VIN
GND	8	8	GND
AV2 VIN	9	9	AV2 VIN
GND	10	10	GND
PAL L	11	11	PAL L
RGB IN H	12	12	RGB IN H
CLK CHG	13	13	CLK CHG
REG5V	14	14	REG5V
GND	15	15	GND
RGB C	16	16	RGB C
GND	17	17	GND
RGB Y	18	18	RGB Y

PS3502 / PP3002

PS 5V	1	1	PS 5V
CPN C OUT	2	2	CPN C OUT
GND	3	3	GND
CPN Y OUT	4	4	CPN Y OUT
GND	5	5	GND
CPS V OUT	6	6	CPS V OUT
GND	7	7	GND
R OUT	8	8	R OUT
GND	9	9	GND
G OUT	10	10	G OUT
GND	11	11	GND
B OUT	12	12	B OUT

PS3501 / PP3001

COUT DM	1	1	COUT DM
GND	2	2	GND
YOUT DM	3	3	YOUT DM
GND	4	4	GND
RPROUT DM	5	5	RPROUT DM
GND	6	6	GND
BPBOUT DM	7	7	BPBOUT DM
GND	8	8	GND
GPYOUT DM	9	9	GPYOUT DM
GND	10	10	GND
AV2 THROUGH L	11	11	AV2 THROUGH L
YC H	12	12	YC H
GND	13	13	GND
GND	14	14	GND
GND	15	15	GND

RGB P.C.B.

PS3903 / PP3004

IIC CLK	1	1	IIC CLK
IIC DATA	2	2	IIC DATA
PROG H	3	3	PROG H
BOOSTER+5V	4	4	BOOSTER+5V
TUNER VIDEO	5	5	TUNER VIDEO
PS 5V	6	6	PS 5V
GND	7	7	GND
DECODER(L)	8	8	DECODER(L)
GND	9	9	GND
DECODER(R)	10	10	DECODER(R)
GND	11	11	GND
PS 12V	12	12	PS 12V
R/C IN	13	13	R/C IN
GND	14	14	GND
G IN	15	15	G IN
GND	16	16	GND
B IN	17	17	B IN
GND	18	18	GND
SCART VIN	19	19	SCART VIN
GND	20	20	GND

PS3901 / PP3005

AV2 VIN	1	1	AV2 VIN
GND	2	2	GND
CPN Y OUT	3	3	CPN Y OUT
GND	4	4	GND
CPS V OUT	5	5	CPS V OUT
GND	6	6	GND
R OUT	7	7	R OUT
GND	8	8	GND
G OUT	9	9	G OUT
GND	10	10	GND
B OUT	11	11	B OUT
GND	12	12	GND

PS3902 / PP3006

PWR SAVE H	1	1	PWR SAVE H
P50	2	2	P50
AV2 8	3	3	AV2 8
WIDE H	4	4	WIDE H
AV2 PB H	5	5	AV2 PB H
GND	6	6	GND
L3 IN R	7	7	L3 IN R
GND	8	8	GND
L3 IN L	9	9	L3 IN L
GND	10	10	GND
AUDIO MUTE	11	11	AUDIO MUTE
MIX R OUT1	12	12	MIX R OUT1
GND	13	13	GND
MIX L OUT1	14	14	MIX L OUT1
GND	15	15	GND

SCART P.C.B.

MAIN P.C.B.

- MAIN NET
- VIDEO I/O
- AUDIO MAIN
- TIMER

FP603 / P3401

RESET-	1	1	RESET-
GND	2	2	GND
DD7	3	3	DD7
DD8	4	4	DD8
DD6	5	5	DD6
DD9	6	6	DD9
DD5	7	7	DD5
DD10	8	8	DD10
DD4	9	9	DD4
DD11	10	10	DD11
DD3	11	11	DD3
DD12	12	12	DD12
DD2	13	13	DD2
DD13	14	14	DD13
DD1	15	15	DD1
DD14	16	16	DD14
DD0	17	17	DD0
DD15	18	18	DD15
GND	19	19	GND
KEY	20	20	———
DMARQ	21	21	DMARQ
GND	22	22	GND
DIOW-	23	23	DIOW-
GND	24	24	GND
DIOR-	25	25	DIOR-
GND	26	26	GND
IORDY	27	27	IORDY
CSEL	28	28	CSEL
DMACK-	29	29	DMACK-
GND	30	30	GND
INTRQ	31	31	INTRQ
IOCS16-	32	32	———
DA1	33	33	DA1
PDIAG-	34	34	———
DA0	35	35	DA0
DA2	36	36	DA2
CS0-	37	37	CS0-
CS1-	38	38	CS1-
DASP-	39	39	———
GND	40	40	GND

P201

1	12V
2	GND
3	GND
4	5V

DVD RAM DRIVE

TO DV INPUT JACK (FRONT PANEL)
P37003

1	TPA+
2	TPA-
3	TPB+
4	TPB-

P37002 / P37001

GND	1	1	GND
TPA+	2	2	TPA+
GND	3	3	GND
TPA-	4	4	TPA-
GND	5	5	GND
TPB+	6	6	TPB+
GND	7	7	GND
TPB-	8	8	TPB-

DV INPUT JACK P.C.B.

PK7701

SIF OUT	GND(TUNER)	TUN AUDIO IN				JC 5V
1	2	3	4	5	6	7

PK7702

SCL	SDA		DECODER(R)	GND(TUNER)	DECODER(L)
1	2	3	4	5	6

P9901

X SW 5.9V	GND	GND	GND	GND	D3.3V
1	2	3	4	5	6

PK7301

SIF	GND	TU AUDIO				SW 5V
1	2	3	4	5	6	7

PK7302

SCL	SDA	GND	AUDIO(R)	GND	AUDIO(L)
1	2	3	4	5	6

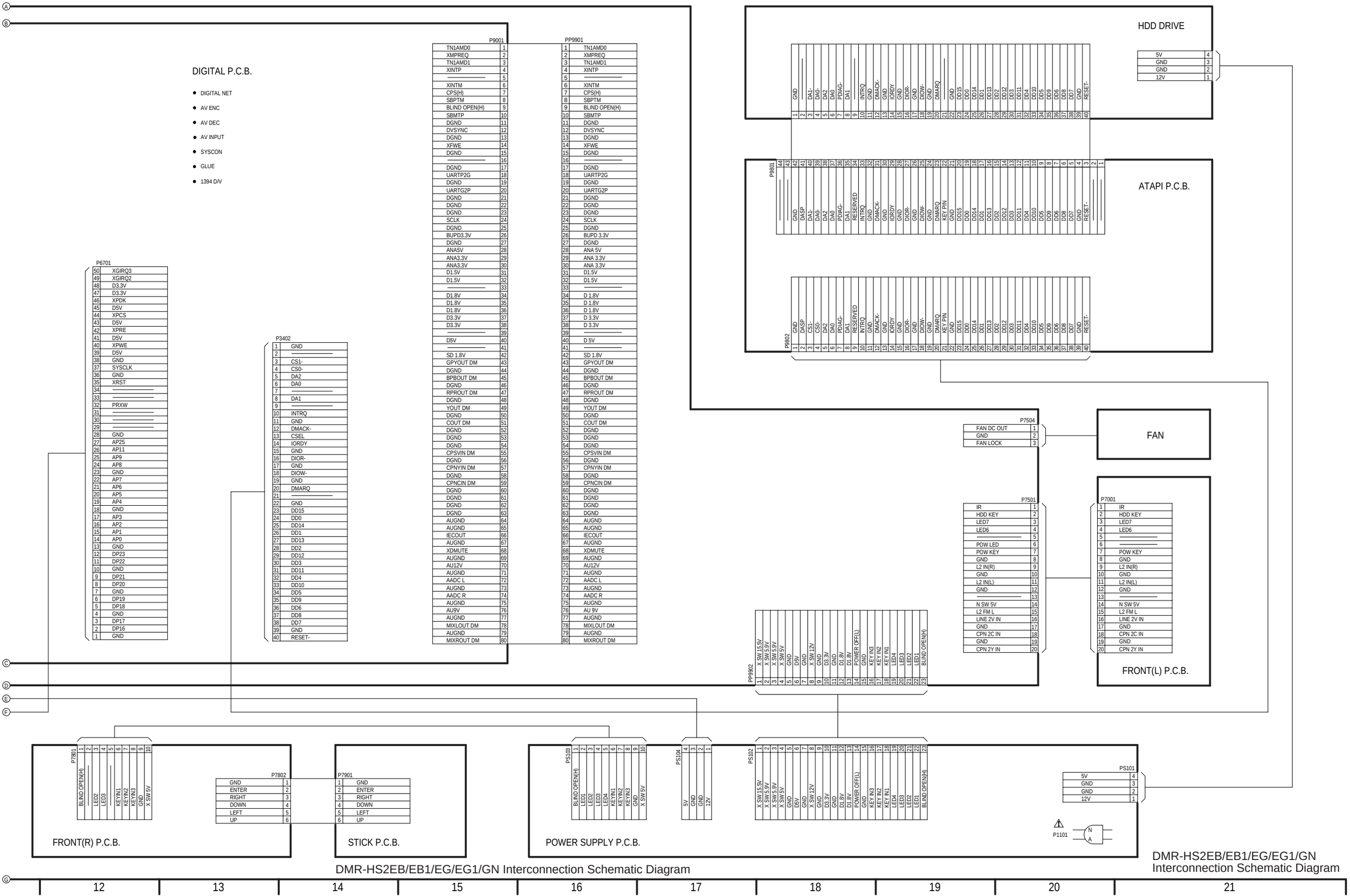
NICAM/DECODER P.C.B.

P6803

X SW 5.9V	GND	GND	GND	D3.3V
1	2	3	4	5

P6801

| | | | | | |


DIGITAL P.C.B.
DIGITAL NET
AV ENC
AV DEC
AV INPUT
SYSCON
GLUE
1394 D/V
P9001
PP9901
TN1AMD0 1
XMPREQ 2
TN1AMD1 3
XINTP 4
5
XINTM 6
CPS(H) 7
SBPTM 8
BLIND OPEN(H) 9
SBMTP 10
DGND 11
DVSYNC 12
DGND 13
XFWE 14
DGND 15
16
DGND 17
UARTP2G 18
DGND 19
UARTG2P 20
DGND 21
DGND 22
DGND 23
SCLK 24
DGND 25
BUPD3.3V 26
DGND 27
ANA5V 28
ANA3.3V 29
ANA3.3V 30
D1.5V 31
D1.5V 32
33
D1.8V 34
D1.8V 35
D1.8V 36
D3.3V 37
D3.3V 38
39
D5V 40
41
SD 1.8V 42
GPYOUT DM 43
DGND 44
BPBOUT DM 45
DGND 46
RPROUT DM 47
DGND 48
YOUT DM 49
DGND 50
COUT DM 51
DGND 52
DGND 53
DGND 54
CPSVIN DM 55
DGND 56
CPNYIN DM 57
DGND 58
CPNCIN DM 59
DGND 60
DGND 61
DGND 62
DGND 63
AUGND 64
AUGND 65
IECOUT 66
AUGND 67
XDMUTE 68
AUGND 69
AU12V 70
AUGND 71
AADC L 72
AUGND 73
AADC R 74
AUGND 75
AU9V 76
AUGND 77
MIXLOUT DM 78
AUGND 79
MIXROUT DM 80
HDD DRIVE
5V 4
GND 3
GND 2
12V 1
P9801
ATAPI P.C.B.
P9802
P6701
XGIRQ3 50
XGIRQ2 49
D3.3V 48
D3.3V 47
XPDK 46
D5V 45
XPCS 44
D5V 43
XPRE 42
D5V 41
XPWE 40
D5V 39
GND 38
SYSCLK 37
GND 36
XRST 35
34
33
PRXW 32
31
30
29
GND 28
AP25 27
AP11 26
AP9 25
AP8 24
GND 23
AP7 22
AP6 21
AP5 20
AP4 19
GND 18
AP3 17
AP2 16
AP1 15
AP0 14
GND 13
DP23 12
DP22 11
GND 10
DP21 9
DP20 8
GND 7
DP19 6
DP18 5
GND 4
DP17 3
DP16 2
GND 1
P3402
GND 1
2
CS1- 3
CS0- 4
DA2 5
DA0 6
7
DA1 8
9
INTRQ 10
GND 11
DMACK- 12
CSEL 13
IORDY 14
GND 15
DIOR- 16
GND 17
DIOW- 18
GND 19
DMARQ 20
21
GND 22
DD15 23
DD0 24
DD14 25
DD1 26
DD13 27
DD2 28
DD12 29
DD3 30
DD11 31
DD4 32
DD10 33
DD5 34
DD9 35
DD6 36
DD8 37
DD7 38
GND 39
RESET- 40
P7504
FAN DC OUT 1
GND 2
FAN LOCK 3
FAN
P7501
IR 1
HDD KEY 2
LED7 3
LED6 4
5
POW LED 6
POW KEY 7
GND 8
L2 IN(R) 9
GND 10
L2 IN(L) 11
GND 12
13
N SW 5V 14
L2 FM L 15
LINE 2V IN 16
GND 17
CPN 2C IN 18
GND 19
CPN 2Y IN 20
P7001
IR 1
HDD KEY 2
LED7 3
LED6 4
5
6
POW KEY 7
GND 8
L2 IN(R) 9
GND 10
L2 IN(L) 11
GND 12
13
N SW 5V 14
L2 FM L 15
LINE 2V IN 16
GND 17
CPN 2C IN 18
GND 19
CPN 2Y IN 20
FRONT(L) P.C.B.
PP9902
X SW 15.5V 1
X SW 5.9V 2
X SW 5.9V 3
X SW 5V 4
GND 5
D5V 6
GND 7
X SW 12V 8
GND 9
D3.3V 10
GND 11
D1.8V 12
D1.8V 13
POWER OFF(L) 14
GND 15
KEY IN3 16
KEY IN2 17
KEY IN1 18
LED4 19
LED3 20
LED2 21
LED1 22
BLIND OPEN(H) 23
P7801
BLIND OPEN(H) 1
2
LED2 3
LED3 4
5
KEYIN1 6
KEYIN2 7
KEYIN3 8
GND 9
X SW 5V 10
FRONT(R) P.C.B.
P7802
GND 1
ENTER 2
RIGHT 3
DOWN 4
LEFT 5
UP 6
P7901
1 GND
2 ENTER
3 RIGHT
4 DOWN
5 LEFT
6 UP
STICK P.C.B.
PS103
BLIND OPEN(H) 1
LED1 2
LED2 3
LED3 4
LED4 5
KEYIN1 6
KEYIN2 7
KEYIN3 8
GND 9
X SW 5V 10
PS104
4
5V 3
GND 2
GND 1
12V
PS102
X SW 15.5V 1
X SW 5.9V 2
X SW 5.9V 3
X SW 5V 4
GND 5
D5V 6
GND 7
X SW 12V 8
GND 9
D3.3V 10
GND 11
D1.8V 12
D1.8V 13
POWER OFF(L) 14
GND 15
KEY IN3 16
KEY IN2 17
KEY IN1 18
LED4 19
LED3 20
LED2 21
LED1 22
BLIND OPEN(H) 23
POWER SUPPLY P.C.B.
PS101
5V 4
GND 3
GND 2
12V 1
P1101
N
A
DMR-HS2EB/EB1/EG/EG1/GN Interconnection Schematic Diagram
DMR-HS2EB/EB1/EG/EG1/GN
Interconnection Schematic Diagram
12
13
14
15
16
17
18
19
20
21

Ref No.	IC3001																			
MODE	1	2	3	4	5	6														
REC	0	2.0	4.9	1.8	0	1.7														
PLAY	0	2.0	4.9	1.8	0	1.7														
STOP	0	2.0	4.9	1.8	0	1.7														

Ref No.	IC3006																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.9	2.6	2.7	2.7	2.7	2.6	2.6	2.7	2.7	2.7	2.2	2.2	2.7	2.7	2.7	2.2	0	2.3	0	4.4
PLAY	4.9	2.2	2.7	2.7	2.7	2.2	2.6	2.7	2.7	2.7	2.2	2.2	2.7	2.7	2.7	2.2	0	2.3	0	4.4
STOP	4.9	2.2	2.6	2.7	2.7	2.2	2.6	2.7	2.7	2.7	2.2	2.1	2.7	2.7	2.7	2.2	0	2.3	0	4.8

Ref No.	IC3006																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
REC	4.2	0	1.3	1.2	1.2	1.9	2.0	2.0	2.0	2.4	2.4	2.6	2.7	2.7	2.7	2.1				
PLAY	4.2	0	1.3	0.8	0.8	1.5	2.0	2.0	2.0	1.5	1.5	2.2	2.7	2.7	2.7	2.2				
STOP	4.8	0	1.3	0.8	0.8	1.5	2.0	2.0	2.0	1.5	1.5	2.2	2.7	2.7	2.7	2.2				

Ref No.	IC3901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.5	5.5	0.1	0.1	1.5	0	2.1	0	0	5.5	5.5	4.9	2.2	12.0	5.5	5.5	0	2.0	3.5	0
PLAY	5.5	5.5	0.1	0.1	1.5	0	2.1	0	0	5.5	5.5	4.9	2.2	12.0	5.5	5.5	0	2.0	3.5	11.5
STOP	5.5	5.5	0.1	0.1	1.5	0	2.0	0	0	5.5	5.5	4.9	2.0	12.0	5.5	5.5	0	2.0	3.5	0

Ref No.	IC3901																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	4.1	4.4	1.8	5.0	2.0	1.1	0	1.8	5.0	4.9	4.9	0	5.5	5.5	0.1	5.5	0	0	4.9	4.9
PLAY	4.1	4.4	1.8	5.0	2.0	1.1	0	1.8	5.0	4.9	4.9	0	5.5	5.5	0.1	5.5	5.5	0	4.9	4.9
STOP	4.1	4.4	1.8	5.0	2.0	1.1	0	1.8	5.0	4.9	4.9	0	5.5	5.5	0.1	5.5	5.5	0	4.9	4.9

Ref No.	IC3901																			
MODE	41	42	43	44																
REC	0	4.9	4.9	0																
PLAY	0	4.9	4.9	0																
STOP	0	4.9	4.9	0																

Ref No.	IC4002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	6.0	6.0	6.0	6.0	6.0	0	0	0	11.9	0	6.0	6.0	6.0	6.0	6.0	12.0				
PLAY	6.0	6.0	6.0	6.0	6.0	0	0	0	0	11.9	6.0	6.0	6.0	6.0	6.0	12.0				
STOP	6.0	6.0	6.0	6.0	6.0	0	0	0	0	11.9	6.0	6.0	6.0	6.0	6.0	12.0				

Ref No.	IC4003																			
MODE	1	2	3	4	5	6	7	8												
REC	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0												
PLAY	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0												
STOP	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0												

Ref No.	IC4004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	4.5	0	4.5	4.5	0.2	4.5	4.5	4.5	4.5	4.5	4.5	9.0	0	4.8	5.0	5.1	0	0	0
PLAY	0	4.5	0	4.5	4.5	0.2	4.5	4.5	4.5	4.5	4.5	4.5	9.0	0	4.8	5.0	5.1	0	0	0
STOP	0	4.5	0	4.5	4.5	0.2	4.5	4.5	4.5	4.5	4.5	4.5	9.0	0	4.8	5.0	5.1	0	0	0

Ref No.	IC4004																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	4.5	4.5	4.5	4.5	4.5	4.5	0	4.5	4.5	0.6	9.0	4.5								
PLAY	4.5	4.5	4.5	4.5	4.5	4.5	0	4.5	4.5	0.6	9.0	4.5								
STOP	4.5	4.5	4.5	4.5	4.5	4.5	0	4.5	4.5	0.6	9.0	4.5								

Ref No.	IC4005								IC4007											
MODE	1	2	3	4	5	6	7	8	1	2	3	4	5							
REC	2.5	5.0	0	0	0	0	0	5.0	5.0	1.6	0	2.5	5.0							
PLAY	2.5	5.0	0	0	5.0	0	2.5	5.0	5.0	1.6	0	2.4	5.0							
STOP	2.5	5.0	0	0	0	0	0	5.0	5.0	1.6	0	2.5	5.0							

Ref No.	IC4008								IC4009											
MODE	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8				
REC	6.0	6.0	6.0	0	6.0	6.0	6.0	11.9	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0				
PLAY	6.0	6.0	6.0	0	6.0	6.0	6.0	11.9	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0				
STOP	6.0	6.0	6.0	0	6.0	6.0	6.0	11.9	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0				

Ref No.	IC4010					IC4011			IC4012											
MODE	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	8				
REC	15.0	9.4	12.0	0	0	9.1	0	12.0	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0				
PLAY	15.0	9.4	12.0	0	0	9.1	0	12.0	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0				
STOP	14.5	9.2	12.0	0	0	9.1	0	12.0	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0				

Ref No.	IC4501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
REC	0.6	0	0	0	12.0	0	12.0	0	0.6	5.6	0	0	0	0.3						
PLAY	0.6	0	0	0	12.0	0	12.0	0	0.6	5.6	0	5.5	0	0.3						
STOP	0.6	0	0	0	12.0	0	12.0	0	0.6	5.6	0	5.5	0	0.3						

Ref No.	IC7501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	-28.8	-28.8	-28.8	-26.1	-26.1	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	4.8	4.8	5.0	5.0	0	5.0	5.0	2.3
PLAY	-28.8	-28.8	-28.8	-26.1	-26.1	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	4.8	1.9	4.4	2.6	0	5.0	5.0	2.3
STOP	-28.8	-28.8	-28.8	-26.1	-26.1	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	4.7	0	4.8	4.8	0	5.0	5.0	2.3

Ref No.	IC7501																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	2.3	0	-28.8	-28.8	-26.0	-26.0	-23.1	-26.0	-26.0	-20.0	-16.8	-29.0	-28.8	-26.0	-26.0	-26.0	-26.0	-26.0	-23.2	-18.0
PLAY	2.3	0	-28.8	-28.8	-26.0	-26.0	-23.1	-26.0	-26.0	-26.0	-17.0	-29.0	-28.8	-26.0	-26.0	-28.8	-28.8	-26.0	-23.2	-23.0
STOP	2.3	0	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	-29.0	-26.0	-20.0	-29.0	-26.0	-23.1	-23.1	-26.0	-26.0	-26.0	-23.1	-23.1

Ref No.	IC7501																				
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	-18.0	-12.1	-23.2	-15.0	-23.0	-15.0	-23.0	-12.1	-18.0	-12.1	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	-18.0	-18.0	-23.1	5.0
PLAY	-23.1	-14.0	-23.1	-23.1	-25.1	-20.0	-20.0	-20.0	-23.1	-20.0	-26.0	-28.8	-28.8	-28.8	-26.0	-28.8	-23.1	-18.0	-26.0	5.0
STOP	-23.1	-14.0	-20.1	-23.1	-23.1	-23.1	-23.1	-20.0	-23.1	-20.0	-23.1	-23.1	-20.0	-26.0	-26.0	-26.0	-20.1	-23.1	-28.0	5.0

Ref No.	IC7501																			
MODE	61	62	63	64																
REC	-29.0	-29.0	-29.0	-29.0																
PLAY	-29.0	-29.0	-29.0	-29.0																
STOP	-29.0	-29.0	-29.0	-29.0																

Ref No.	IC7502																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.7	2.1	4.7	5.0	5.0	4.8	0	0	1.5	1.2	4.8	2.2	0	2.1	4.8	4.8	5.0	5.0	0.3	4.7
PLAY	4.7	2.1	4.7	5.0	5.0	4.8	0	0	1.5	1.2	4.8	2.2	0	0	4.8	4.8	5.0	5.0	0	4.7
STOP	4.7	2.1	4.7	5.0	5.0	4.8	0	0	1.5	1.2	4.8	2.3	0	2.1	4.8	4.8	5.0	5.0	0	4.7

Ref No.	IC7502																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	0	0	0	0	0	0	4.8	4.8	0	1.9	1.6	1.7	4.8	0	0	0.3	5.0	5.0	4.8
PLAY	0	0	0	0	0	0	0	4.2	4.2	0	1.9	1.6	1.6	4.8	0	0	0	5.0	5.0	4.8
STOP	0	0	0	0	0	0	0	4.8	4.3	0	1.9	1.6	1.6	4.8	0	0	0	5.0	5.0	4.8

Ref No.	IC7502																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	5.0	5.0	5.0	0	4.8	0	0	0	0	0	0	4.8	4.7	0	4.8	4.8	0	0	4.8
PLAY	0	2.5	2.5	4.4	0	4.8	0	0	0	0	0	0	4.8	0	4.7	4.8	4.8	0	0	4.8
STOP	0	5.0	4.8	4.8	0	4.8	0	0	0	0	0	0	4.8	0	4.7	4.8	4.8	0	0	4.8

Ref No.	IC7502																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	4.8	4.8	5.0	0	0	0	0	0	4.8	4.8	0	0	0	0	0	0	0	0	0	4.8
PLAY	4.8	4.8	5.0	0	0	0	0	0	3.9	4.8	0	0	0	0	0	0	0	0	0	4.8
STOP	4.8	4.8	5.0	0	0	0	0	0	4.8	4.8	0	0	0	0	0	0	0	0	0	4.8

Ref No.	IC7502																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0	5.0	4.8	4.8	4.8	0.1	0.1	4.7	4.8	0	0	0	4.8	5.0	5.0	4.8	4.8	0	0	2.4
PLAY	0	4.9	4.8	4.8	4.8	0.1	0.1	4.7	4.8	0	0	0	1.9	4.8	4.9	4.8	4.8	0	0	2.4
STOP	0	5.0	4.8	4.7	4.8	0.1	0.1	4.7	4.8	0	0	0	0	4.9	5.0	4.8	4.8	0	0	2.4

Ref No.	IC7502																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116				
REC	0	0	0	4.8	4.8	4.8	5.0	4.8	2.0	1.3	0	4.8	2.0	0	2.2	5.0				
PLAY	0	0	0	4.8	4.8	4.8	5.0	4.8	1.1	1.3	0	4.8	1.1	0	2.2	0				
STOP	0	0	0	4.8	4.8	4.8	5.0	4.8	1.1	1.3	0	4.8	1.1	0	2.2	5.0				

Ref No.	IC7503										IC7504				IC7505					
MODE	1	2	3	4	5	6	7	8	9		1	2	3		1	2	3	4		
REC	0	0	0.6	2.0	0	2.0	0.6	0	12.0		5.1	0	4.7		2.1	3.2	0	0		
PLAY	0	0	0.6	2.0	0	2.0	0.6	0	12.0		5.1	0	4.8		2.1	3.2	0	0		
STOP	0	0	0.6	2.0	0	2.0	0.6	0	12.0		5.1	0	4.8		2.1	3.3	0	0		

Ref No.	IC7506									IC7507										
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8			
REC	0	0	0	0	4.2	4.4	4.7	4.8		5.2	2.1	2.1	0	2.1	2.1	2.1	15.0			
PLAY	0	0	0	0	4.2	4.4	4.8	4.8		5.3	2.1	2.1	0	2.0	2.1	2.1	15.0			
STOP	0	0	0	0	4.8	4.8	4.8	4.8		5.3	2.1	2.1	0	2.0	2.0	2.1	15.0			

Ref No.	IC7508						IC7601													
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8						
REC	0	0	0	4.8	4.8		6.0	6.0	5.9	0	5.9	6.0	6.0	12.0						
PLAY	0	0	0	4.8	4.8		6.0	6.0	5.9	0	5.9	6.0	6.0	12.0						
STOP	0	0	0	4.8	4.8		6.0	6.0	5.9	0	5.9	6.0	6.0	12.0						

Ref No.	IC9901							IC9902							IC9903					
MODE	1	2	3	4	5	6		1	2	3	4	5	6		1	2	3	4	5	
REC	6.4	0	3.9	1.2	0	5.0		6.4	0	3.9	1.2	0	5.0		15.0	4.0	12.0	0	0	
PLAY	6.4	0	3.9	1.2	0	5.0		6.4	0	3.9	1.2	0	5.0		15.0	4.0	12.0	0	0	
STOP	6.4	0	3.9	1.2	0	5.0		6.4	0	3.9	1.2	0	5.0		15.0	4.0	12.0	0	0	

Ref No.	IC9904							IC9905							IC9906					
MODE	1	2	3	4	5			1	2	3	4	5	6		1	2	3	4	5	
REC	6.4	4.7	5.0	0	0			6.4	0	6.4	1.3	0	3.6		1.2	0	4.5	15.0	12.0	
PLAY	6.4	4.7	5.1	0	0			6.4	0	6.4	1.3	0	3.6		1.2	0	4.5	15.0	12.0	
STOP	6.4	4.7	5.1	0	0			6.1	0	6.1	1.2	0	3.6		1.2	0	4.5	14.5	12.0	

Ref No.	IC9907						IC9908						IC9909						
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5	6	7
REC	1.3	0	4.5	6.4	5.0		1.2	0	4.5	6.4	5.0		3.3	0	0	1.9	4.5	0	5.0
PLAY	1.3	0	4.5	6.4	5.0		1.2	0	4.5	6.4	5.0		3.3	0	0	1.9	4.5	0	5.0
STOP	1.3	0	4.5	6.1	5.0		1.2	0	4.5	6.1	5.0		3.3	0	0	1.9	4.5	0	5.0

Ref No.	IC9910						IC9911							IC9912					
MODE	1	2	3	4	5		1	2	3	4	5	6		1	2	3	4	5	6
REC	1.7	3.2	1.5	1.0	0		3.2	0	4.5	1.3	0	1.8		6.4	0	3.9	1.2	0	5.0
PLAY	1.7	3.2	1.5	1.0	0		3.2	0	4.5	1.3	0	1.8		6.4	0	3.9	1.2	0	5.0
STOP	1.8	3.2	1.5	1.0	0		3.2	0	4.5	1.3	0	1.8		6.1	0	3.9	1.2	0	5.0

Ref No.	Q3001				Q3002				Q3003				Q3004				Q3006		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	1.9	5.0	2.5		3.0	0	2.4		1.9	5.0	2.5		3.0	0	2.4		1.9	0	1.2
PLAY	1.9	5.0	2.5		2.2	0	1.5		1.9	5.0	2.5		2.2	0	1.5		1.5	0	0.8
STOP	1.9	5.0	2.5		2.2	0	1.5		1.9	5.0	2.5		2.2	0	1.5		1.5	0	0.8

Ref No.	Q3007				Q3008				Q3009				Q3010				Q3011		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	3.2	0	0		1.8	0	1.2		1.6	0	0.9		1.6	0	0.9		1.6	0	0.9
PLAY	3.2	0	2.6		1.8	0	1.2		1.6	0	0.9		1.6	0	0.9		1.6	0	0.9
STOP	3.2	0	0		1.8	0	1.2		1.6	0	0.9		1.6	0	0.9		1.6	0	0.9

Ref No.	Q3902				Q3905				Q3906				Q3907				Q3908		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	2.2	0	1.5		0.2	0.2	0		5.0	0.6	5.0		0	12.0	0		5.0	-0.7	5.0
PLAY	2.2	0	1.5		0.1	0.4	0		5.0	0.4	5.0		0	12.0	0		5.0	-0.5	5.0
STOP	2.1	0	1.5		0.4	0.4	0		5.0	0.4	5.0		0	12.0	0		5.0	-0.3	5.0

Ref No.	Q3909				Q3910				Q4001				Q4002				Q4004		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	0	0	-0.8		0	0	-0.5		0	0	-0.1		0	0	-0.1		5.1	0	5.1
PLAY	0	0	-0.3		0	0	-0.3		0	0	-0.1		0	0	-0.1		5.0	0	5.1
STOP	0	0	-0.4		0	0	-0.4		0	0	-0.1		0	0	-0.1		5.1	5.0	4.4

Ref No.	Q4006				Q4007				Q4008				Q4009				Q4501		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	0	0	0		0	0	0		0	0	0		0	0	0		4.9	12.0	5.5
PLAY	0	0	0		0	0	0		0	0	0		0	0	0		4.9	12.0	5.5
STOP	0	0	0.7		0	0	0.7		0	0	0.7		0	0	0.7		4.9	12.0	5.5

Ref No.	Q7501				Q7502				Q7503				Q7504				Q7505		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	-26.0	5.0	-26.0		-26.0	5.0	-26.0		0	5.3	-0.9		0	-0.9	-0.9		1.7	5.0	2.4
PLAY	-26.0	5.0	-26.0		-26.0	5.0	-26.0		0	5.1	-0.9		0	-0.9	-0.9		0.9	5.0	1.5
STOP	-26.0	5.0	-26.0		-26.0	5.0	-26.0		0	5.3	-0.9		0	-0.9	-0.9		0.9	5.0	1.5

Ref No.	Q7506				Q7507				Q7508				Q7509				Q7510		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	2.0	5.0	1.6		1.7	5.0	2.4		2.0	5.0	1.6		3.5	4.8	3.6		1.6	0	1.0
PLAY	1.1	5.0	1.6		0.9	5.0	1.5		1.2	5.0	1.6		3.5	4.8	3.6		1.6	0	1.0
STOP	1.1	5.0	1.6		0.9	5.0	1.5		1.2	5.0	1.6		3.5	4.8	3.7		1.6	0	1.0

Ref No.	Q7511				Q7512				Q7513				Q7515				Q7516		
MODE	E	C	B		E	C	B		E	C	B		1	2	3		E	C	B
REC	0	5.0	0		0	0	0.6		0	4.3	0		5.2	12.3	4.8		4.8	0	4.8
PLAY	0	5.0	0		0	0	0.6		0	4.3	0		5.2	12.3	4.8		4.8	0	4.8
STOP	0	5.0	0		0	0	0.6		0	4.3	0		5.3	12.0	4.8		4.8	0	4.8

Ref No.	Q7702		
MODE	E	C	B
REC	1.0	0	0.3
PLAY	1.0	0	0.3
STOP	1.0	0	0.3

Ref No.	QR3901			QR3902			QR3903			QR3904			QR3905		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	0	0	0	0	0	0	0	0	0	0	4.1	0	0	4.1
PLAY	0	0	0	0	0	0	0	0	0	0	4.1	0	0	0	4.1
STOP	0	0	0	0	0	0	0	0	0	0	4.1	0	0	0	4.1
Ref No.	QR3906			QR3907			QR3908			QR3909			QR3910		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	11.9	0	12.0	0.1	11.9	0	0	3.5	0	5.0	0	0	3.5	0
PLAY	0	11.9	0	12.0	0.5	11.9	0	0	3.5	0	4.9	0	0	0	11.5
STOP	0	11.9	0	12.0	-0.1	11.9	0	0	3.5	0	5.0	0	0	0	11.5
Ref No.	QR3911			QR3912			QR3913			QR3914			QR3915		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	0	3.5	5.0	5.0	0	0	5.0	0.1	0.1	4.1	0	0.1	4.4	0
PLAY	0	4.9	0	5.0	5.0	4.9	0	5.0	0.1	0.2	4.1	0	0.5	4.4	0
STOP	0	4.9	0	5.0	5.0	4.9	0	5.0	0.1	-	4.1	0	-	4.4	0
Ref No.	QR4002			QR4003			QR4004			QR4005			QR4006		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	0	4.7	0	0	2.2	0	5.1	0	0	5.0	0	0	0	4.5
PLAY	0	0	4.7	0	0	2.2	0	5.1	0	0	5.0	0	0	0	4.5
STOP	0	0	4.7	0	3.4	0	0	0	3.4	0	0	0	0	0	4.5
Ref No.	QR4007			QR4010			QR4011			QR4012			QR7501		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	9.4	0	0	12.0	0	0	0	4.7	5.1	0	4.8	0	0	2.1
PLAY	0	9.4	0	0	0	4.7	0	12.0	0	5.1	0	4.8	0	0	2.1
STOP	0	9.4	0	0	0	4.7	0	12.0	0	5.1	0	4.8	0	0	2.1
Ref No.	QR7502			QR7701			QR7702								
MODE	E	C	B	E	C	B	E	C	B						
REC	4.8	0	4.8	0	0	0	0	0	0						
PLAY	4.8	0	4.8	0	0	0	0	0	0						
STOP	4.8	0	4.8	0	0	0	0	0	0						

TU7701 TUNER PACK
ENG47327G1:HS2EG/EG1/GN
ENG47328G1:HS2EB/EB1

DU7701
VEP07A23S:HS2EG/EG1/GN
VEP07A23T:HS2EB/EB1

ZA9004
K9ZZ00000424
(BUTTOM-1)

(HS2EB/EB1 only)
L7703 G0C270JA0019
R7706 10
LB7709 ERJ6GEY0R00V
R7701 0
L7701 ERDS2TJ271T

RFC V OUT
RFC A OUT
AFC
IIC CLK
IIC DATA
UNREG 38V

R7704 100
C7727 0.1 (HS2EG/EG1/GN only)
R7705 100
C7708 33P
C7707 33P
R7708 100:HS2EB/EB1 470:HS2EG/EG1/GN
R7709 100:HS2EB/EB1 470:HS2EG/EG1/GN
K7705 0
R7711 560
R7710 560

C7728 0.1:HS2EG/EG1/GN 3300P:HS2EB/EB1
LB7701 J0JHC0000032
LB7710 J0JHC0000032
C7701 6V47
C7702 0.01
(HS2EB/EB1 only)
QR7701 UNR211500L (MUTE)
QR7702 UNR221500L (MUTE)
R7703 5.6K
(HS2EB/EB1 only)
C7730 1000P
LB7711 J0JHC0000032
C7703 0.01
C7704 6V47
LB7702 J0JHC0000032

LB7703 J0JHC0000032
LB7712 J0JHC0000032
C7710 6V47
C7709 0.1
R7712 680

C7712 0.1
D7701 MAZ4300NMF
C7713 50V1

Q7702 2SB1218A0L (BUFFER)
R7713 150
R7714 150

C7715 0.1

LB7713 J0JHC0000032
LB7707 J0JGC0000020
C7721 16V47

RFC A MUTE
PS 5V
T PS 5V

C9927 6V47
C9928 0.1
C9901 6V47
C9902 0.1
C7711 220P
C9903 6V47
C9904 0.1

IC9912 C0DBCHD00002 (REG.T PS +5V)
IC9901 C0DBCHD00002 (REG.+5V)
IC9902 C0DBCHD00002 (REG.PS +5V)
VOUT GND NR VIN GND ON(H)

IC9903 C0DBZJG00005 or C0DBZJG00004 or C0DBZJD00001
(REG.PS +12V)
VIN ON(H) VOUT NC GND

C7714 6V47

P SAVE(L)
TUNER VIDEO

TO P6803
PC CARD P.C.B.
P9901

X SW 5.9V	1
GND	2
D5V	3
GND	4
3.3V	5

C9953 0.1

PS 12V
FAN GND
GND
DDGND
BOOSTER +5V
X SW 15.5V
X SW 5V
D5V
REG 5V
REG 12V
JC REG5V
JC P ON
D3.3V

LB7705 J0JHC0000032
C9905 16V330

TO PS102
POWER SUPPLY P.C.B.
PP9902

X SW 15.5V	1
X SW 5.9V	2
X SW 5.9V	3
X SW 5V	4
GND	5
D5V	6
GND	7
X SW 12V	8
GND	9
D3.3V	10
GND	11
D1.8V	12
D1.8V	13
P OFF L	14
GND	15
KEYIN3	16
KEYIN2	17
KEYIN1	18
LED4	19
LED3	20
LED2	21
LED1	22
BLIND OPEN(H)	23

LB9901 J0JHC0000032
LB9902 J0JHC0000032
LB9903 J0JHC0000032
LB9904 J0JHC0000032
LB9907 J0JHC0000032
LB9905 J0JHC0000032
LB9906 J0JHC0000032

C9907 6V470
C9906 6V470
C9909 25V220
C9908 10V470
R9913 270
C9917 16V47
C9910 6V470
C9911 6V470
C9929 16V220

R9903 82K
R9904 3900
R9905 10K
IC9906 C0DBEZC00010 (REG.+12V)
VOUT ADJ GND VIN ON(H)

C9918 6V47
C9919 0.1
IC9907 C0DBFHD00003 (REG.+5V)
VOUT NR GND VIN ON(H)

IC9904 C0DBZHE00013 or C0DBZHE00011 (REG.JC +5V)
VIN ON(H) VOUT NC GND

C9912 6V47
C9930 0.1
C9913 0.1

D9901 B0JACE000001
D9902 B0JACE000001
R9902 1K
B9901 CR2354-1GUF or VS80205
C9915 6V47
C9914 0.1
IC9905 C0DBFGD00009 (REG.BUPD +3.3V)
VOUT GND NR VIN GND ON(H)

ZA9001
K9ZZ00000424
(BOTTOM-4)

LB9908 J0JGC0000020
LB9909 J0JGC0000020
LB9910 J0JHC0000020
LB9911 J0JGC0000020
LB9912 J0JGC0000020
LB9913 J0JGC0000020
LB9914 J0JGC0000020

LED1
LED2
LED3
LED4
KEYIN1
KEYIN2
KEYIN3
P OFF(L)
X SW 12V

M:MAIN NET SECTION(Page: A)
V:VIDEO I/O SECTION(Page: B)
A:AUDIO MAIN SECTION(Page: C)
T:TIMER SECTION(Page: D)

DMR-HS2EB/EB1/EG/EG1/GN
Main Net Section(Main P.C.B.(1/4))
Schematic Diagram(M)

M:MAIN NET SECTION(Page: A)
V:VIDEO I/O SECTION(Page: B)
A:AUDIO MAIN SECTION(Page: C)
T:TIMER SECTION(Page: D)

ZA9003
K9ZZ00000424
(BOTTOM-7)

DECODER R
DECODER L
DU7702
VEP07A51A
PK7701
1 SIF OUT
2 GND(TUNER)
3 TUN AUDIO IN
7 JC 5V
PK7702
1 SCL
2 SDA
4 DECODER(R)
5 GND(TUNER)
6 DECODER(L)
DECODER PACK

L7704
G0C2R2JA0019
LB7708
J0JHC0000032
R7715 100
R7716 100
C7720 0.1
C7729 1000P
C7719 16V47
C7718 2200P
TL9902
TL9901
C9940 0.01
C9941 0.01

TO P9001
DIGITAL P.C.B.(DIGITAL NET)
PP9901
1 TN1AMD0
2 XMPREQ
3 TN1AMD1
4 XINTP
5
6 XINTM
7 RSVD3
8 SBPTM
9 BLIND OPEN(H)
10 SBMTP
11 DGND
12 DVSYNC
13 DGND
14 XFWE
15 DGND
16
17 DGND
18 UARTG2G
19 DGND
20 UARTG2P
21 DGND
22 DGND
23 DGND
24 SCLK
25 DGND
26 BUPD3.3V
27 DGND
28 ANA5V
29 ANA3.3V
30 ANA3.3V
31 D1.5V
32 D1.5V
33
34 D1.8V
35 D1.8V
36 D1.8V
37 D3.3V
38 D3.3V
39
40 D5V
41
42 SD1.8V
43 GPYOUT DM
44 DGND
45 BPBOUT DM
46 DGND
47 RPROUT DM
48 DGND
49 YOUT DM
50 DGND
51 COUT DM
52 DGND
53 DGND
54 DGND
55 CPSVIN DM
56 DGND
57 CPNYIN DM
58 DGND
59 CPNCIN DM
60 DGND
61 DGND
62 DGND
63 DGND
64 AUGND
65 AUGND
66 IECOUT
67 AUGND
68 XDMUTE
69 AUGND
70
71 AUGND
72 AADC L
73 AUGND
74 AADC R
75 AUGND
76 AU9V
77 AUGND
78 MIXLOUT DM
79 AUGND
80 MIXROUT DM

TN1AMD0
XMPREQ
TN1AMD1
XINTP
XINTM
SBPTM
SBMTP
XFWE
XNMIRES
UARTG2G
UARTG2P
SCLK
GPYOUT DM
BPBOUT DM
RPROUT DM
YOUT DM
COUT DM
CPSVIN DM
CPNYIN DM
CPNCIN DM
IECOUT
XDMUTE
AU 12V
AADC L
AADC R
AU 9V
MIXLOUT DM
AU GND
MIXROUT DM

TL9905
R7702 10K
Q7701
2SD1819A0L
(XFWE OUT)
C9942 0.01
C9943 0.01
C9944 0.01
C9934 0.1

R7718 150K
C7725 50V2.2
R7727 150K
R7724 150K
R7725 6800
R7726 2200
C7726 16V10
C7722 0.01
R7720 150K
IC7601
C0ABBB000108
(AUDIO AMP)
VCC OUT - + OUT - + VSS
R7722 6800
C7723 50V2.2
R7723 2200
C7724 16V10
R7719 150K
R7721 150K

C9921 6V47
IC9908
C0DBFHD00003
(REG.ANA+5V)
VOUT VIN NR GND ON(H)
C9920 0.1
IC9909
C0CBCBE00001
(REG.ANA+3.3V)
VIN GND ON(H) VOUT NC GND CN
C9922 6V47
C9923 0.1
IC9910
C0DBFFE00001
or
C0DBFFE00002
(REG.D+1.5V)
VIN VB OUT VADJ GND
C9924 6V47
R9906 470
R9907 30
R9908 1K
C9925 6V47
C9952 0.1
C9951 0.1
C9948 0.1
C9949 0.1
C9950 0.1
C9926 0.1
C9931 1000P
IC9911
C0DBFFD00006
(REG.SD+1.8V)
VOUT GND NR VIN GND ON(H)
C9938 1000P
C9937 0.1

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN
Main Net Section(Main P.C.B.(1/4))
Schematic Diagram(M)

DMR-HS2EB/EB1/EG/EG1/GN
Main Net Section(Main P.C.B.(1/4))
Schematic Diagram(M)

12 13 14 15 16 17 18 19 20 21 22

TO PK7701
MAIN P.C.B.
(MAIN NET)
PK7301

SIF	1
GND	2
TU AUDIO	3
	4
	5
	6
SW 5V	7

C7335 0.1
C7305 6V100
C7303 6V100
L7303 G0C1R0JA0019
LB7303 J0JCC0000080
C7306 0.01
C7334 50V2.2
C7311 100P
R7304 100

IC7302
C0EAH0000051
(RESET)
IN G OUT
1 2 3

C7301 0.1
R7301 0
C7302 ERJ3GEY0R00V

TO PK7702
MAIN P.C.B.
(MAIN NET)
PK7302

SCL	1
SDA	2
GND	3
AUDIO(R)	4
GND	5
AUDIO(L)	6

C7309 100P
C7310 100P
C7308 10P
C7307 10P
R7319 0
R7317 0

R7324 100
R7325 100

K7302 0
K7301 0
K7305 0
K7303 0
R7322 0
C7330 ERJ3GEYJ822V
X7301 H0D245500016
C7329 ERJ3GEY0R00V
C7332 0.1
R7307 0
C7333 0.1

IC7301
C1AB00001404(NICAM/A2)

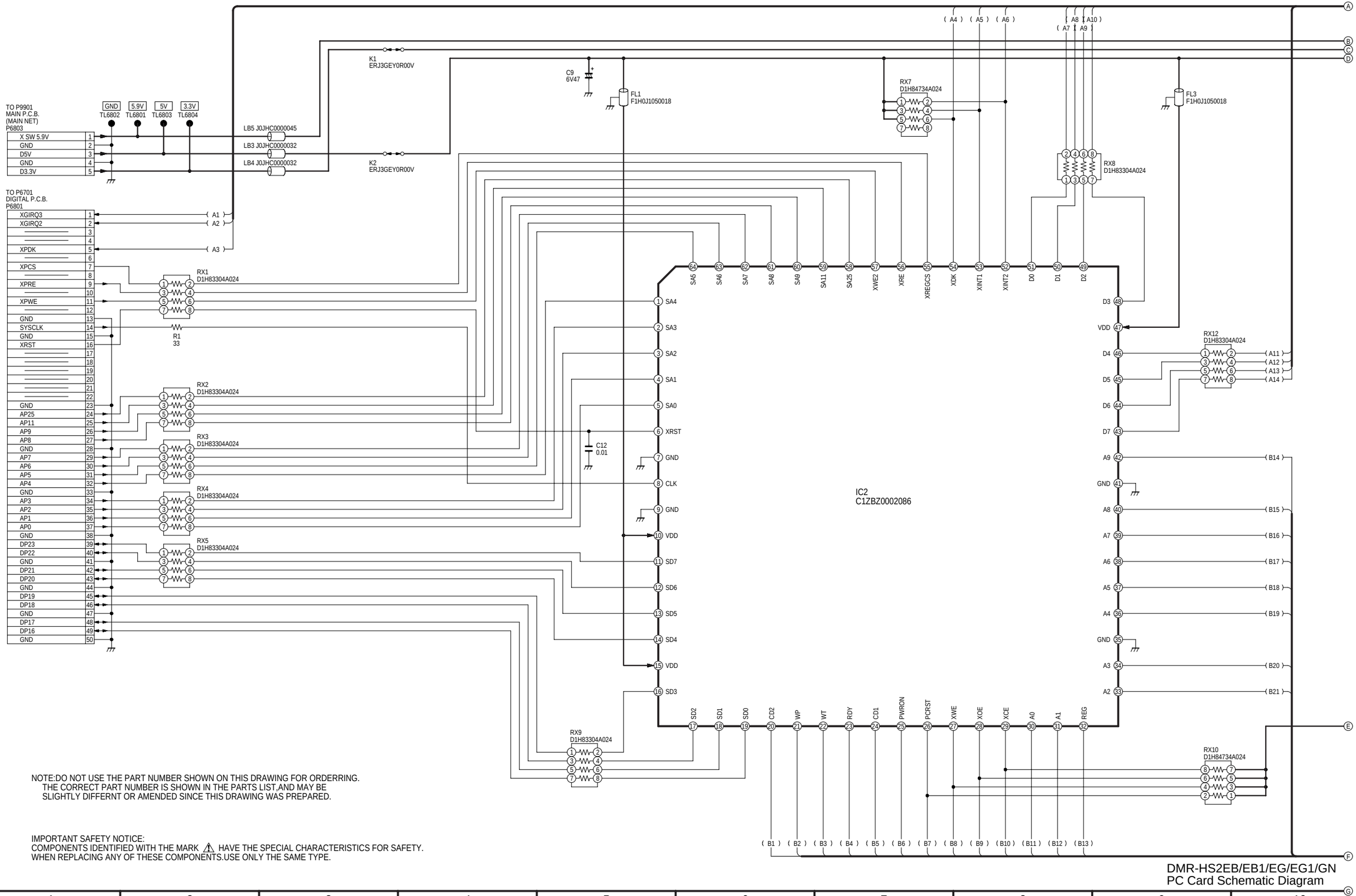
TEST1	VDDA2	VSSA2	ADDR2	1 REF	TEST2	TP3	XTALI	XTALO	ADDR1	PCLK		
22	21	20	19	18	17	16	15	14	13	12		
23 SIF2											TP1	11
24 VREF1											NICAM	10
25 SIF1											TP2	9
26 CRESET											VDEC2	8
27 VSSA3											VSSD2	7
28 VDDA3											VDDD1	6
29 SCL											VSSD1	5
30 SDA											VSSA1	4
31 SDO/LPF											VDDA1	3
32 WS/AF20											OUT R	2
33 SCK/AF21											OUT L	1
SYS CLK/CTRIG	VDDD3/CID	VSSD3	P1	MONO IN	EXTIR	EXTIL	V REF2	P2	OUT M	VSSA4		
34	35	36	37	38	39	40	41	42	43	44		

LB7301 J0JCC0000124
C7323 1000P
C7324 0.1
R7312 220
R7313 220
C7313 16V10
C7312 16V10
R7309 10K
TL7301
LB7302 J0JCC0000124
TL7302
R7311 220
R7314 0
C7318 16V10
C7317 16V47
TL7303
R7315 0
C7314 0.1

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
Nicam/Decoder Schematic Diagram

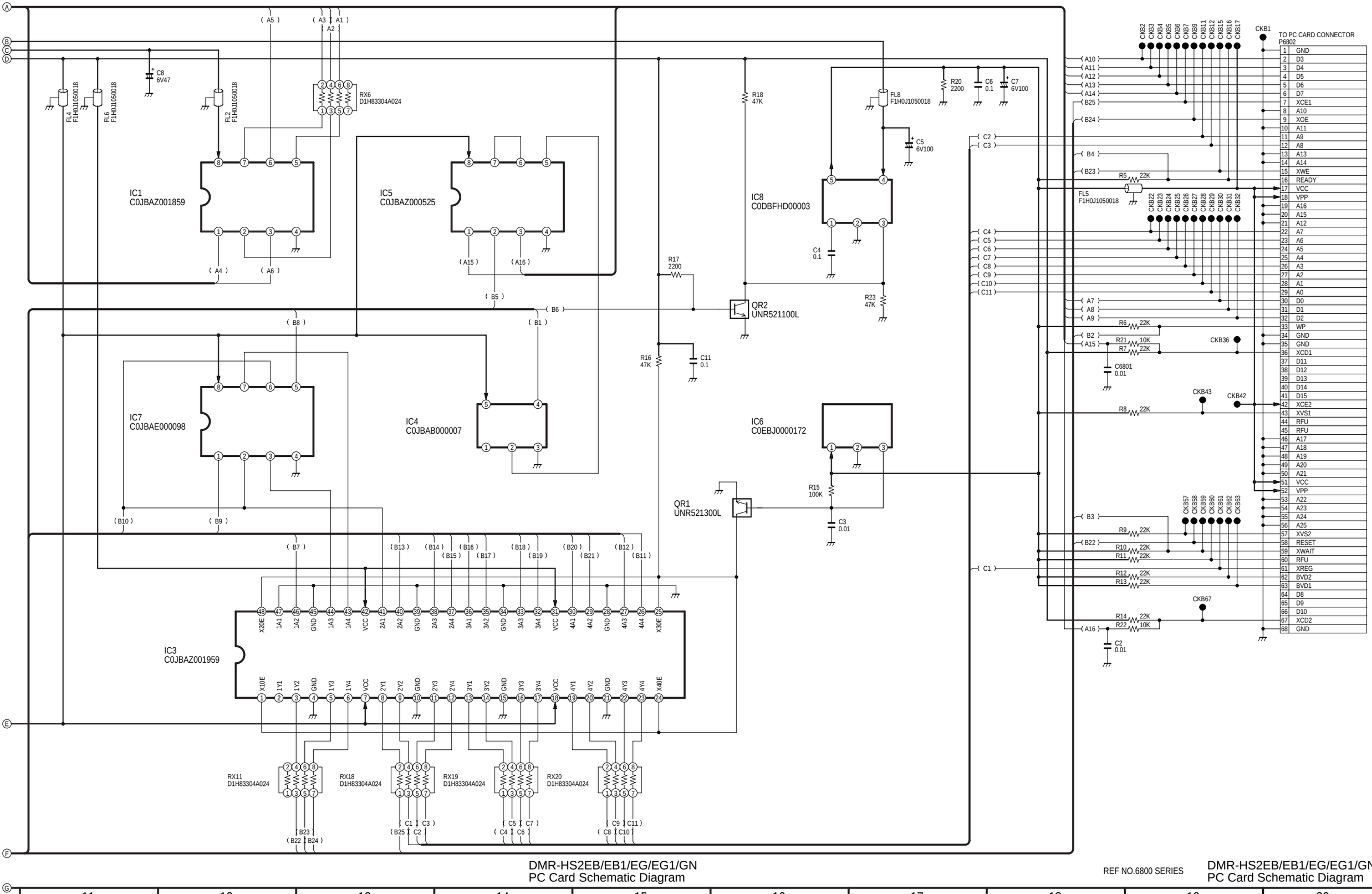
Ref No.	P9001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	5.0	0	5.0	0	4.9	3.1	5.0	-0.1	4.9	0	0.2	0	4.8	0	2.1	0	5.0	0	5.0
PLAY	0	5.0	0	5.0	0	4.9	3.2	5.0	-0.1	4.9	0	0.2	0	4.8	0	2.1	0	5.0	0	5.0
STOP	0	5.0	0	5.0	0	4.9	3.2	5.0	-0.1	4.9	0	0.2	0	4.8	0	2.1	0	5.0	0	5.0
Ref No.	P9001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	0	0	4.7	0	3.7	0	5.0	3.3	3.3	1.5	1.5	0	1.7	1.7	1.7	3.2	3.2	5.0	5.0
PLAY	0	0	0	4.7	0	3.6	0	5.0	3.3	3.3	1.5	1.5	0	1.7	1.7	1.7	3.2	3.2	5.0	5.0
STOP	0	0	0	4.7	0	3.6	0	5.0	3.3	3.3	1.5	1.5	0	1.7	1.7	1.7	3.2	3.2	5.0	5.0
Ref No.	P9001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	1.8	0.9	0	0.9	0	0.9	0	1.2	0	1.8	0	0	0	3.1	0	3.1	0	2.0	0
PLAY	0	1.8	0.9	0	0.9	0	0.9	0	1.2	0	1.8	0	0	0	3.1	0	3.1	0	2.0	0
STOP	0	1.8	0.9	0	0.9	0	0.9	0	1.2	0	1.8	0	0	0	3.1	0	3.1	0	2.0	0
Ref No.	P9001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	0	0	0	0	1.5	0	2.2	0	12.0	0	6.0	0	6.0	0	9.1	0	2.5	0	2.5
PLAY	0	0	0	0	0	1.6	0	2.2	0	12.0	0	6.0	0	6.0	0	9.1	0	2.5	0	2.5
STOP	0	0	0	0	0	1.6	0	2.2	0	12.0	0	6.0	0	6.0	0	9.1	0	2.5	0	2.5



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.USE ONLY THE SAME TYPE.

DMR-HS2EB/EB1/EG/EG1/GN
PC Card Schematic Diagram



DMR-HS2EB/EB1/EG/EG1/GN
PC Card Schematic Diagram

REF NO.6800 SERIES

DMR-HS2EB/EB1/EG/EG1/GN
PC Card Schematic Diagram

POWER SUPPLY P.C.B.

MAIN P.C.B.

DIGITAL P.C.B.

PC CARD P.C.B.

AC SOCKET P1

F1 250V 2A

SURGE SUPPRESSOR AND SURGE ABSORBER

D1,C7 RECTIFIER

T1 POWER TRANSFORMER

IC1,Q4 CONSTANT VOLTAGE CONTROL

S4 X SW+15.5V — PS102 1 — PP9902 1 — X SW+15.5V

S5 X SW+5.9V — PS102 2,3 — PP9902 2,3 — X SW+5.9V

S2 X SW+5V — PS102 4 — PP9902 4 — X SW+5V(PSC 9)

S3 X SW+12V — PS102 8 — PP9902 8 — IP7501 — T7501 (POWER TRANS.) — UNREG.+38V — TO TU7701- 16

DC-DC CONVERTER

DR1 S01 D+1.8V — PS102 12,13 — PP9902 12,13 — D+1.8V

T1

DR2 S02 D+3.3V — PS102 10 — PP9902 10 — D+3.3V

PC1 PHOTO COUPLER

IC101 SHUNT REG.

Q105,106 POWER CTL. — PS102 6 — PP9902 6

IC9903 (REG.PS +12V) — IN OUT ON(H) — REG.PS+12V(PSC 1)

POWER SAVE(L) — FROM TIMER BLOCK(IC7502- 56)

X SW+15.5V(PSC 21)

IC9906 (REG.+12V) — REG.+12V(PSC 2)

IC4010 (REG.AU+12V) — AU+12V — QR4006,4007 SWITCH

IC4011 (REG.AU+9V) — REG.AU+9V(PSC 22) — AU+9V — PP9901 76 — P9001 76

REG.AU+12V(PSC 3)

IC4401 (REG.AU+5V) — AU+5V(PSC 12)

IC50011 (REG.DAC+3.3V) — DAC+3.3V(PSC 13)

IC9901 (REG.+5V) — BOOSTER +5V — BOOSTER +5V(PSC 4)

IC9907 (REG.+5V) — REG.+5V(PSC 5)

IC9905 (REG.BUPD+3.3V) — BUPD+3.3V — PP9901 26 — P9001 26 — BUPD+3.3V(NOT USED)

IC9902 (REG.PS+5V) — REG.PS+5V(PSC 6)

IC9912 (REG.T PS+5V) — REG.T PS+5V(PSC 7)

IC6808 (REG.+5V) — PP9901 1 — P6803 1 — TO PC CARD CONNECTOR, IC6806- 1

IC9904 (REG.JC+5V) — REG.JC+5V(PSC 8)

IC9908 (REG.ANA+5V) — ANA+5V — PP9901 28 — P9001 28 — ANA+5V(PSC 14)

JC POWER ON(H) — FROM TIMER BLOCK(IC7502- 89)

IC9910 (REG.D+1.5V) — VIN VB — D+3.3V(PSC 10)

D+1.8V — PP9901 34,35,36 — P9001 34,35,36 — D+1.8V(PSC 15)

D+1.5V — PP9901 31,32 — P9001 31,32 — D+1.5V(PSC 16)

IC9911 (REG.SD+1.8V) — SD+1.8V — PP9901 42 — P9001 42 — SD+1.8V(PSC 17)

IP4001

IC9909 (REG.ANA+3.3V) — D+3.3V — PP9901 37,38 — P9001 37,38 — D+3.3V(PSC 18)

ANA+3.3V — PP9901 29,30 — P9001 29,30 — ANA+3.3V(PSC 19)

D+5V(PSC 11)

POWER OFF(L) — FROM TIMER BLOCK(IC7502- 88)

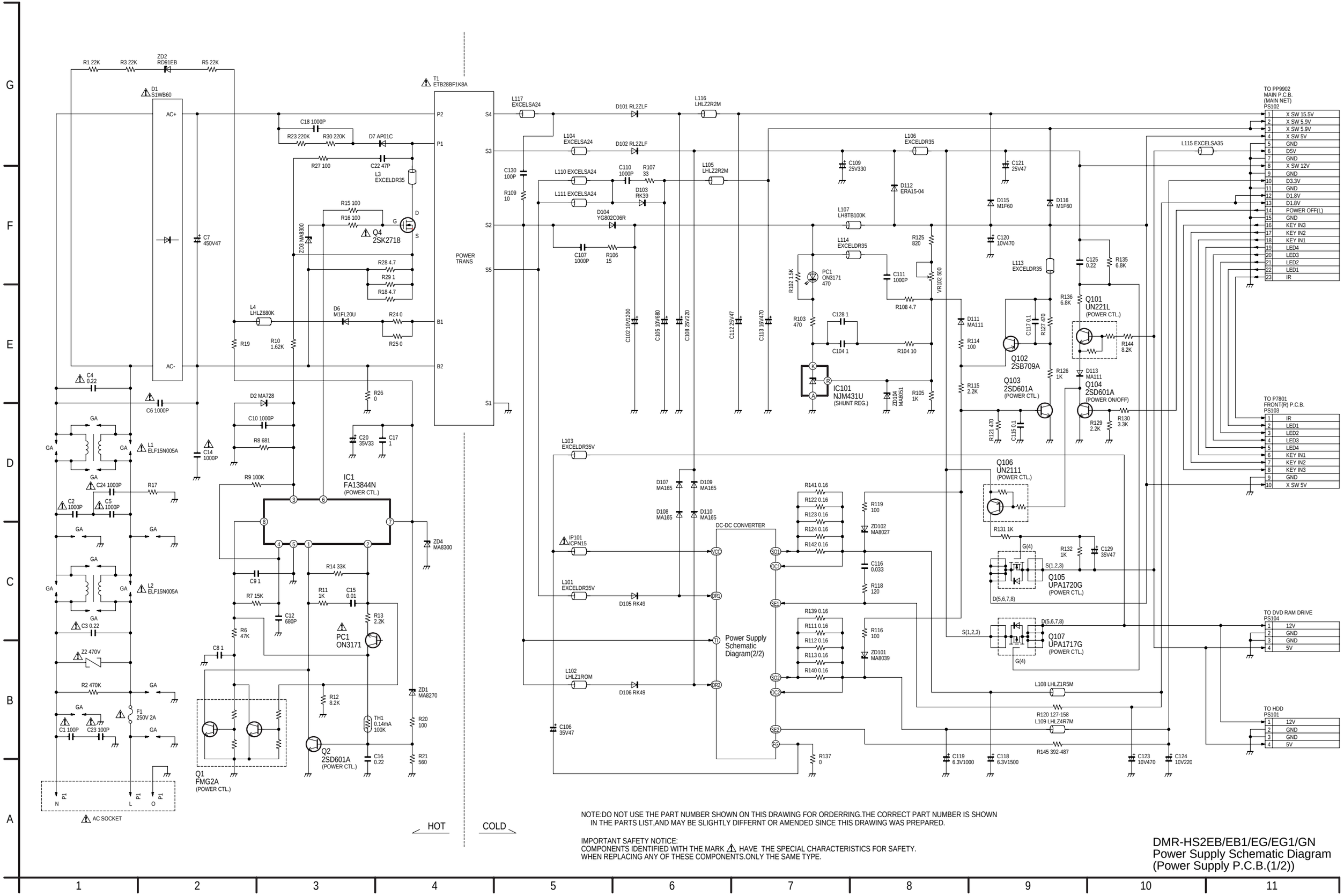
D+5V — PP9901 40 — P9001 40 — IC9001 (REG.D+3V) — D+5V(PSC 20) — D+3V(PSC 24)

D+5V(PSC 23)

HOT

COLD

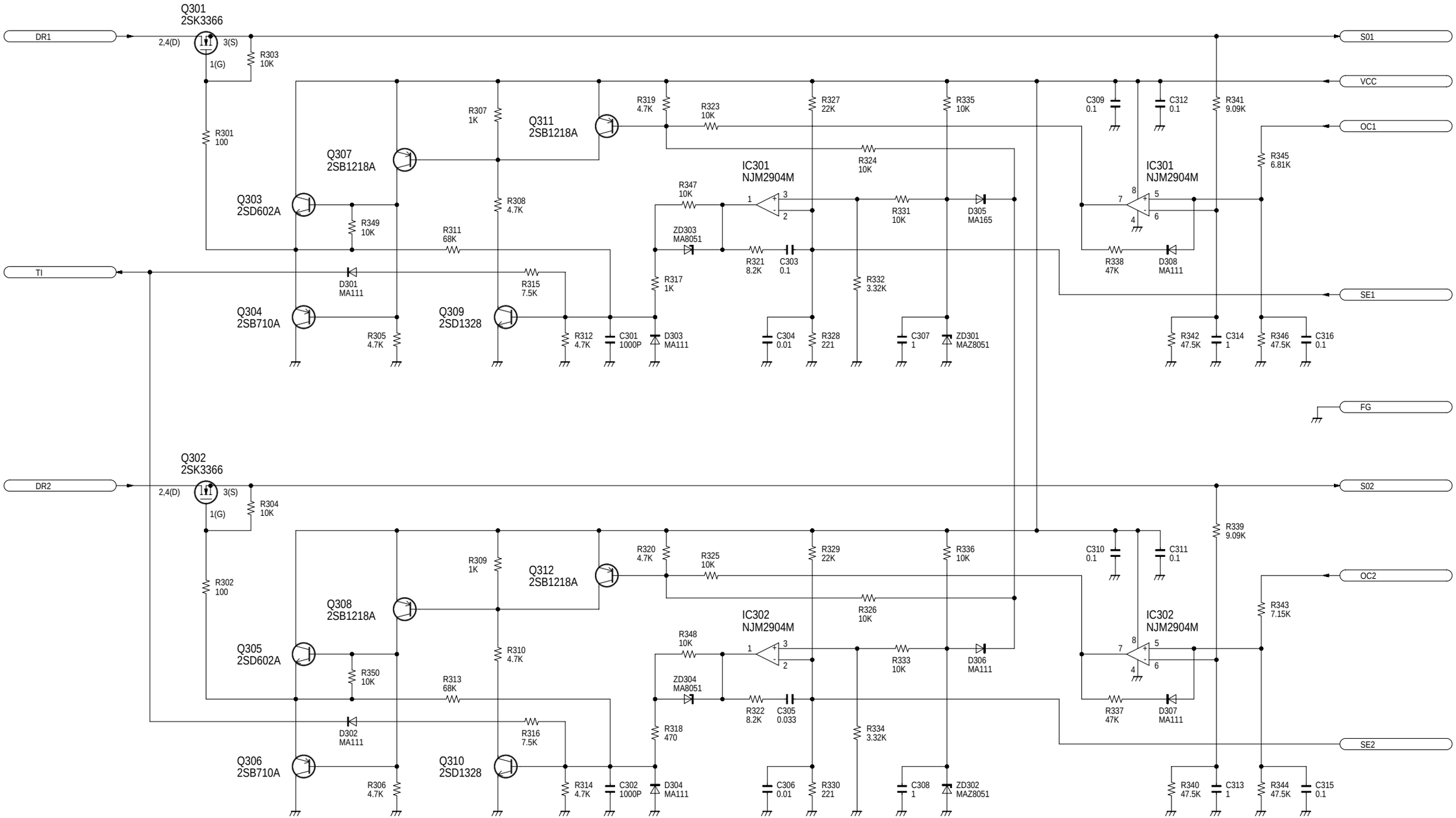
DMR-HS2EB/EB1/EG/EG1/GN
Power Supply Block Diagram



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

DMR-HS2EB/EB1/EG/EG1/GN
Power Supply Schematic Diagram
(Power Supply P.C.B.(1/2))



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN
Power Supply Schematic Diagram
(Power Supply P.C.B.(2/2))

TO PP3003
MAIN P.C.B.
(VIDEO I/O)
PS3503

RGB Y	18
GND	17
RGB C	16
GND	15
REG5V	14
	13
RGB IN(H)	12
	11
GND	10
AV2 VIN	9
GND	8
SCART VIN	7
GND	6
B IN	5
GND	4
G IN	3
GND	2
R/C IN	1

TO PP3002
MAIN P.C.B.
(VIDEO I/O)
PS3502

PS 5V	1
CPN C OUT	2
GND	3
CPN Y OUT	4
GND	5
CPS V OUT	6
GND	7
R OUT	8
GND	9
G OUT	10
GND	11
B OUT	12

TO PP3001
MAIN P.C.B.
(VIDEO I/O)
PS3501

COUT DM	1
GND	2
YOUT DM	3
GND	4
RPROUT DM	5
GND	6
BPBOUT DM	7
GND	8
GPYOUT DM	9
GND	10
AV2 THROUGH(L)	11
YC(H)	12
GND	13
GND	14
GND	15

L3501 22u
C3501 6V47
R3501 33K
Q3501 2SD0601A0L (AMP)
R3502 22K
R3506 1K
C3502 6V47
R3507 33K
Q3502 2SD0601A0L (AMP)
R3508 22K
R3509 1K
C3503 6V47
R3512 33K
Q3503 2SD0601A0L (AMP)
R3513 22K
R3514 1K
C3578 0.1
VR3501 10KB EVMECSA00B14
VIDEO LEVEL
C3507 50V3.3
C3506 50V3.3
C3505 50V3.3
C3504 0.01
R3523 56K
C3521 0.1
C3520 6V220
FL3501 ELB4E042B
R3524 2200
R3530 1K
C3524 0.1
C3523 6V47
R3531 1K
R3532 1K
C3526 6V47
R3533 33K
R3535 22K
R3528 1K
IC3501 C1AB00000773
TL3501
TL3502
R3525 91K
C3508 270P
C3509 0.1
C3511 12P
L3502 10u
C3512 0.1
R3526 15K
C3519 0.01
X3501 HDD443400037
VC3517 E0RLA030E53R
C3518 50V1
VC3516 E0RLA030E53R
R3527 470
R3529 680
Q3508 2SB0709A0L (AMP)
R3534 330
Q3506 2SA10220BL (AMP)
Q3505 2SC22950BL (AMP)
R3536 120
R3537 240
R3538 1K
R3504 100
Q3507 2SB0709A0L (AMP)
R3505 33K
Q3509 2SD0601A0L (AMP)
R3510 22K
R3511 1K
R3519 330
C3516 6V47
C3515 0.1
C3576 16V10
IC3509 C1AA00000016 (SYNC SEP.)
SYNC SEP
V-SYNC SEP
GND
VCC
C3575 25V3.3
R3520 220K
R3582 2700
Q3504 2SD0601A0L (SYNC SEP.)
R3503 0

L3508 4.7u
C3565 0.1
C3563 6V1000
C3564 6V100
C3566 56P
C3567 6V1000
C3568 6V100
IC3508 C9ZB00000377 (CPN C/Y,CPS V BUFFER)
TEST
MIX
Y
Y(E20)
PY/CY
PB/CB
PR/CR
(IC TRAP 27MHz)
1.5-6M BPF
6M LPF
CLAMP
12M LPF
MUTE1
MUTE2
20K
C3553 56P
L3505 4.7u
C3554 0.1
C3555 50V1
C3528 0.01
C3529 0.01
C3530 0.01
C3557 0.01
C3556 6V47
L3504 22u

L3506 G0C220JA0019
C3532 0.01
C3531 6V47
C3533 6V220
C3534 16V22
C3535 6V220
C3536 16V22
C3537 6V220
C3538 16V22
IC3503 C9ZB00000282 (RGB BUFFER)

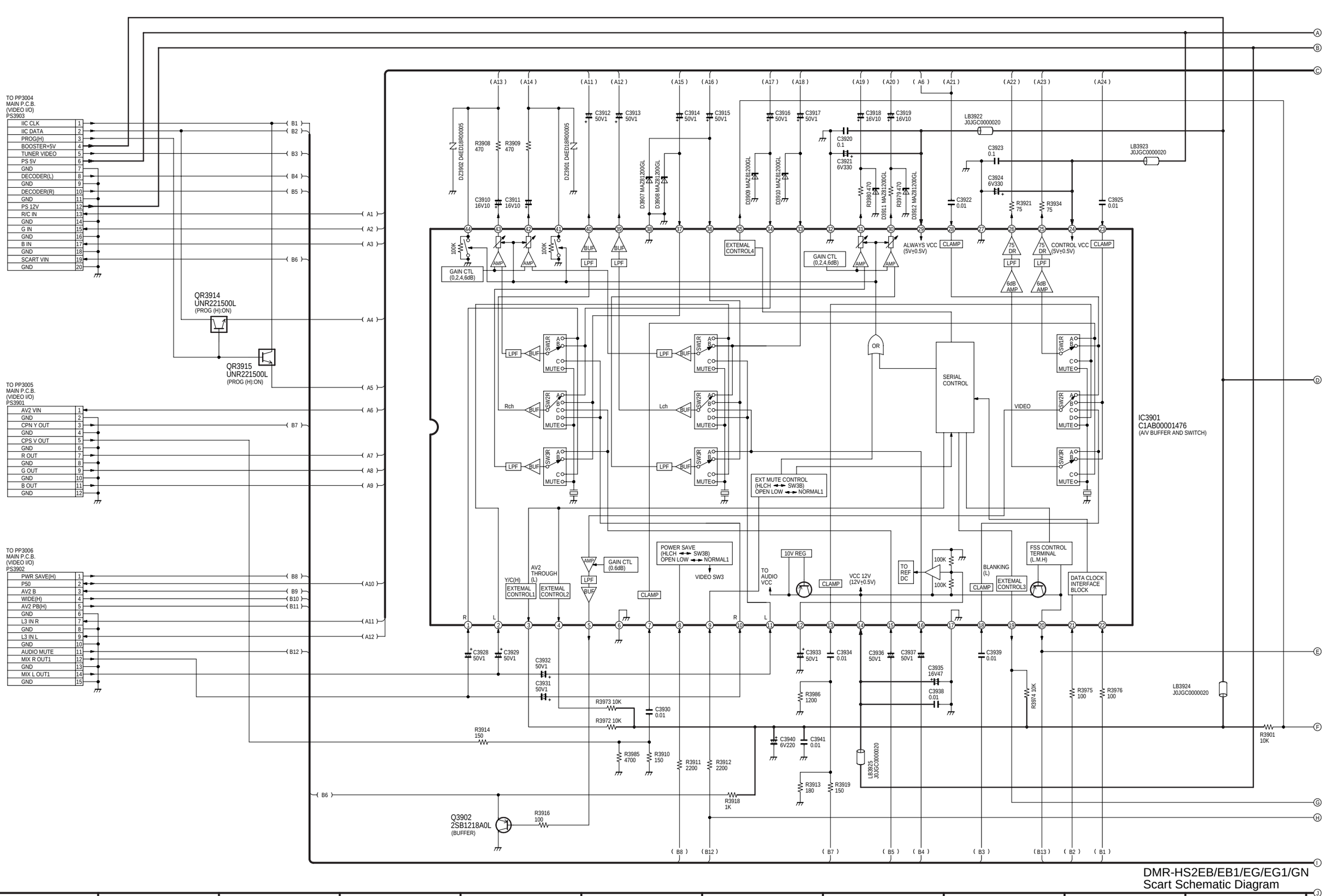
C3548 6V47
R3570 33K
R3575 5600
C3547 0.1
C3546 6V220
IC3506 C0JBAR000292 (SELECTOR SW.)
VDD
VEE
VSS
R3566 0
C3543 0.1
R3573 5600
R3572 5600
C3544 6V47
R3567 33K
R3568 33K
R3569 33K
C3545 6V47
R3574 5600

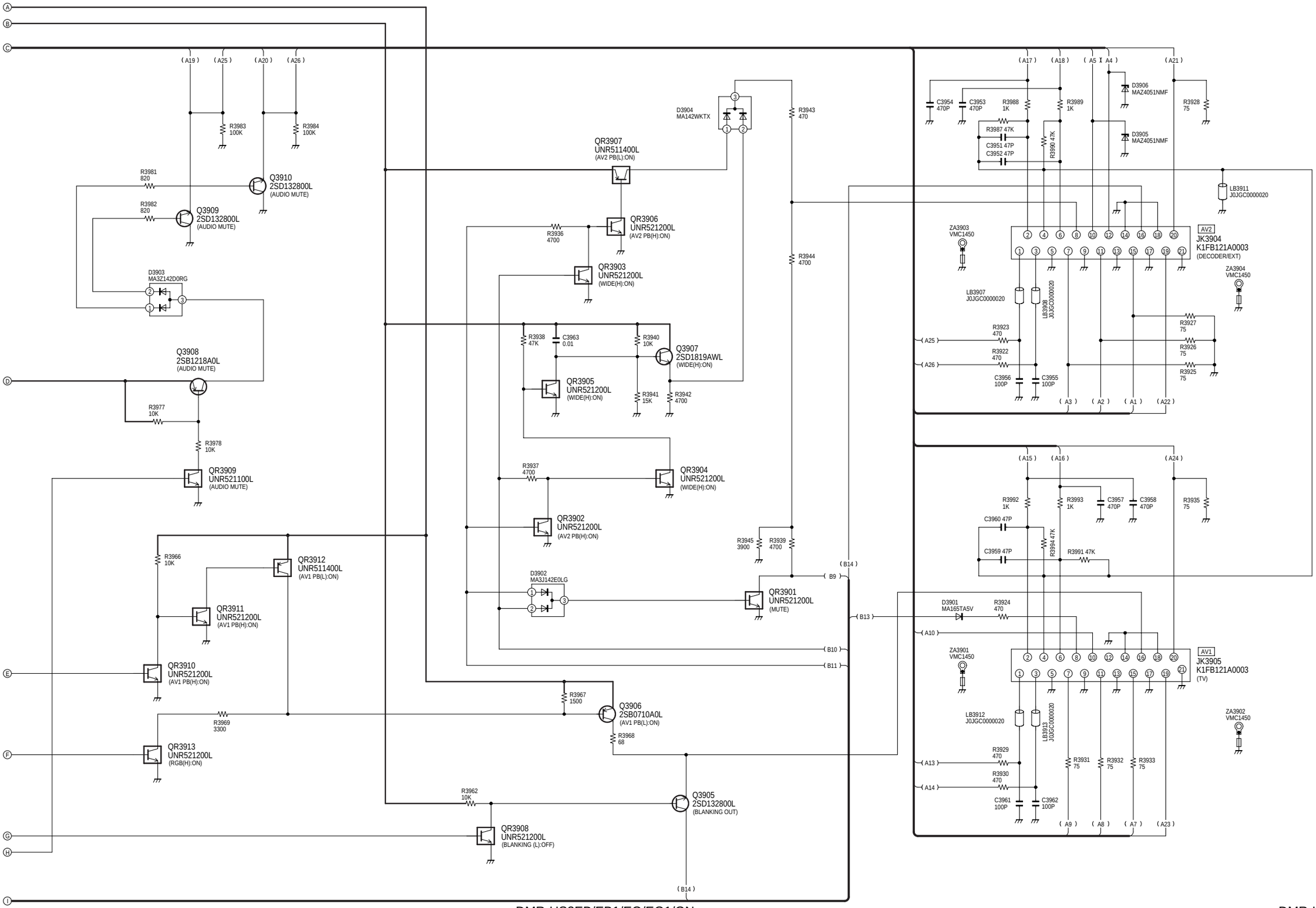
C3551 0.1
R3580 33K
C3552 6V47
R3581 5600
IC3507 C0JBAR000292 (SELECTOR SW.)
R3578 5600
C3549 6V47
R3576 33K
R3577 33K
C3550 6V47
R3579 5600

R3583 22K
C3510 0.1
R3517 22K
R3518 22K
C3514 0.1
R3584 22K
IC3502 C0JBAR000292 (SELECTOR SW.)
R3516 5600
C3513 6V47
R3515 33K

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN
RGB Schematic Diagram


TO PP3004
MAIN P.C.B.
(VIDEO I/O)
PS3903
IIC CLK
IIC DATA
PROG(H)
BOOSTER+5V
TUNER VIDEO
PS 5V
DECODER(L)
DECODER(R)
PS 12V
R/C IN
G IN
B IN
SCART VIN
QR3914
UNR221500L
(PROG (H):ON)
QR3915
UNR221500L
(PROG (H):ON)
TO PP3005
MAIN P.C.B.
(VIDEO I/O)
PS3901
AV2 VIN
CPN Y OUT
CPS V OUT
R OUT
G OUT
B OUT
TO PP3006
MAIN P.C.B.
(VIDEO I/O)
PS3902
PWR SAVE(H)
P50
AV2 B
WIDE(H)
AV2 PB(H)
L3 IN R
L3 IN L
AUDIO MUTE
MIX R OUT1
MIX L OUT1
DZ3902 D4ED1BR00005
DZ3901 D4ED1BR00005
R3908 470
R3909 470
C3910 16V10
C3911 16V10
C3912 50V1
C3913 50V1
C3914 50V1
C3915 50V1
C3916 50V1
C3917 50V1
C3918 16V10
C3919 16V10
C3920 0.1
C3921 6V330
C3922 0.01
C3923 0.1
C3924 6V330
C3925 0.01
LB3922 J0JGC0000020
LB3923 J0JGC0000020
D3907 MAZ81200GL
D3908 MAZ81200GL
D3909 MAZ81200GL
D3910 MAZ81200GL
D3911 MAZ81200GL
D3912 MAZ81200GL
R3980 470
R3979 470
R3921 75
R3934 75
GAIN CTL (0,2,4,6dB)
EXTEMAL CONTROL4
ALWAYS VCC (5V±0.5V)
CLAMP
CONTROL VCC (5V±0.5V)
IC3901
C1AB00001476
(A/V BUFFER AND SWITCH)
SERIAL CONTROL
OR
VIDEO
EXT MUTE CONTROL
(HLCH SW3B)
OPEN LOW NORMAL1
POWER SAVE
(HLCH SW3B)
OPEN LOW NORMAL1
VIDEO SW3
10V REG
TO AUDIO VCC
VCC 12V (12V±0.5V)
TO REF DC
BLANKING (L)
EXTEMAL CONTROL3
FSS CONTROL TERMINAL (L.M.H)
DATA CLOCK INTERFACE BLOCK
Y/C(H)
EXTEMAL CONTROL1
AV2 THROUGH (L)
EXTEMAL CONTROL2
GAIN CTL (0.6dB)
C3928 50V1
C3929 50V1
C3930 0.01
C3931 50V1
C3932 50V1
C3933 50V1
C3934 0.01
C3935 16V47
C3936 50V1
C3937 50V1
C3938 0.01
C3939 0.01
C3940 6V220
C3941 0.01
R3973 10K
R3972 10K
R3914 150
R3985 4700
R3910 150
R3911 2200
R3912 2200
R3918 1K
R3986 1200
R3974 10K
R3975 100
R3976 100
R3901 10K
R3913 180
R3919 150
R3916 100
Q3902
2SB1218A0L
(BUFFER)
LB3924 J0JGC0000020
LB3925 J0JGC0000020
DMR-HS2EB/EB1/EG/EG1/GN
Scart Schematic Diagram



AV2

1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	AV2 +12V
9	GND
10	-/CONTROL
11	GREEN
12	-/DATA
13	GND
14	GND
15	RED/C IN
16	BLANKING
17	GND
18	GND
19	VIDEO OUT
20	VIDEO IN/Y IN
21	GND

AV1

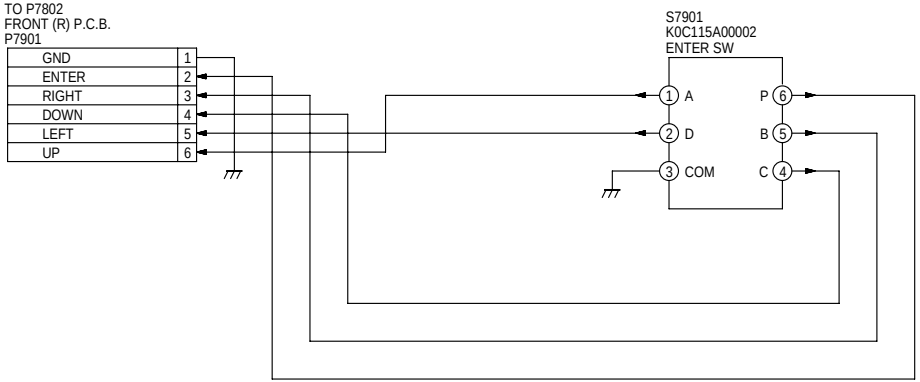
1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	PB +12V
9	GND
10	-/CONTROL
11	GREEN
12	-/DATA
13	GND
14	GND
15	RED/C OUT
16	BLANKING
17	GND
18	GND
19	VIDEO OUT/Y OUT
20	VIDEO IN
21	GND

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN
Scart Schematic Diagram

DMR-HS2EB/EB1/EG/EG1/GN
Scart Schematic Diagram

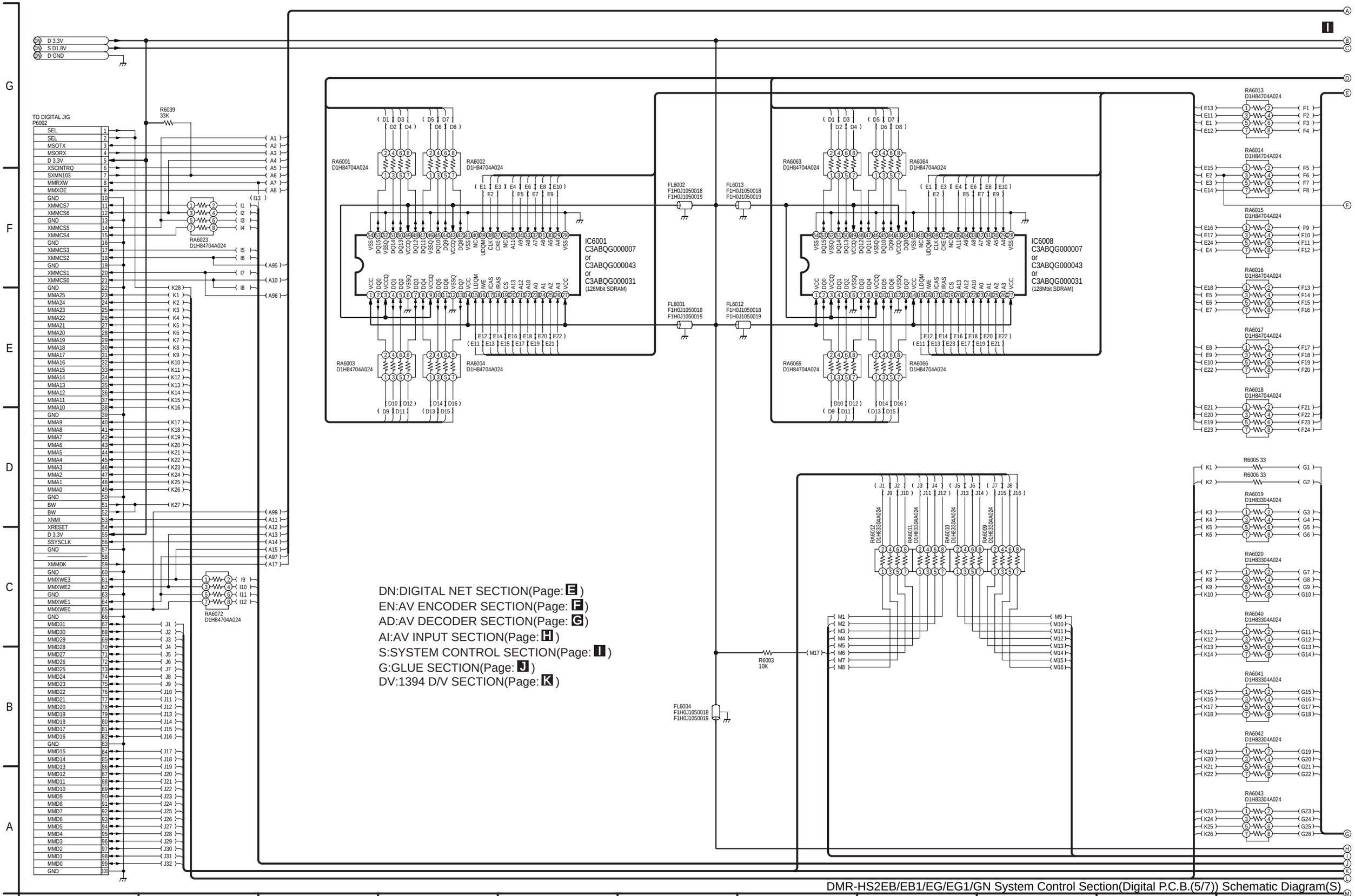
12 13 14 15 16 17 18 19 20 21 22



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
Stick Schematic Diagram

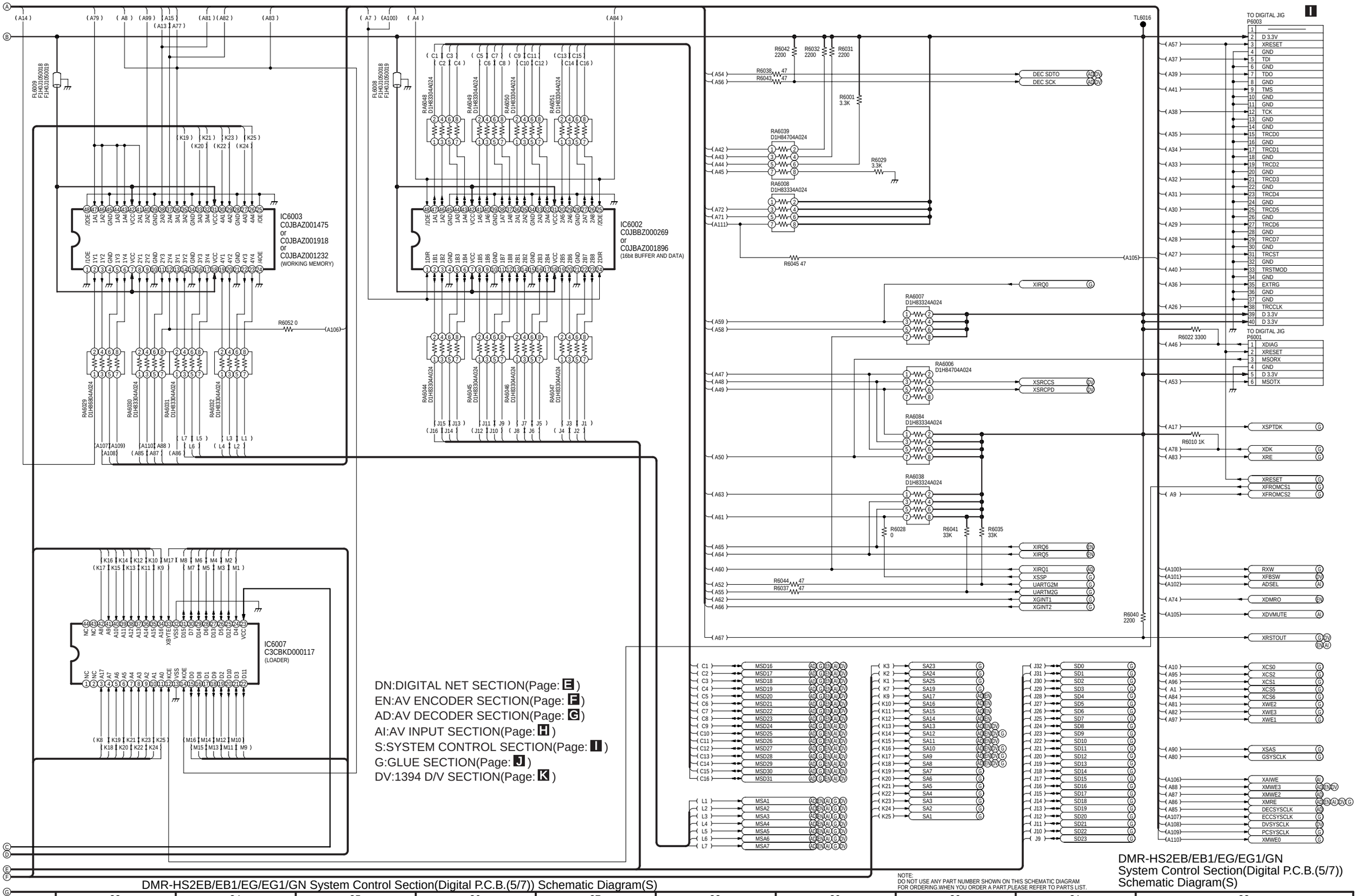
C
B
A
1
2
3
4


D 3.3V
S D1.8V
D GND
TO DIGITAL JIG
P6002
SEL
SEL
MSOTX
MSORX
D 3.3V
XSCINTRQ
SXMN103
MMRXW
MMXOE
GND
XMMCS7
XMMCS6
GND
XMMCS5
XMMCS4
GND
XMMCS3
XMMCS2
GND
XMMCS1
XMMCS0
GND
MMA25
MMA24
MMA23
MMA22
MMA21
MMA20
MMA19
MMA18
MMA17
MMA16
MMA15
MMA14
MMA13
MMA12
MMA11
MMA10
GND
MMA9
MMA8
MMA7
MMA6
MMA5
MMA4
MMA3
MMA2
MMA1
MMA0
GND
BW
BW
XNMI
XRESET
D 3.3V
SSYSCLK
GND
XMMDK
GND
MMXWE3
MMXWE2
GND
MMXWE1
MMXWE0
GND
MMD31
MMD30
MMD29
MMD28
MMD27
MMD26
MMD25
MMD24
MMD23
MMD22
MMD21
MMD20
MMD19
MMD18
MMD17
MMD16
GND
MMD15
MMD14
MMD13
MMD12
MMD11
MMD10
MMD9
MMD8
MMD7
MMD6
MMD5
MMD4
MMD3
MMD2
MMD1
MMD0
GND
R6039
33K
RA6023
D1H84704A024
RA6072
D1H84704A024
RA6001
D1H84704A024
RA6002
D1H84704A024
RA6003
D1H84704A024
RA6004
D1H84704A024
IC6001
C3ABQG000007
or
C3ABQG000043
or
C3ABQG000031
(128Mbit SDRAM)
FL6002
F1H0J1050018
F1H0J1050019
FL6013
F1H0J1050018
F1H0J1050019
FL6001
F1H0J1050018
F1H0J1050019
FL6012
F1H0J1050018
F1H0J1050019
RA6063
D1H84704A024
RA6064
D1H84704A024
RA6065
D1H84704A024
RA6066
D1H84704A024
IC6008
C3ABQG000007
or
C3ABQG000043
or
C3ABQG000031
(128Mbit SDRAM)
RA6013
D1H84704A024
RA6014
D1H84704A024
RA6015
D1H84704A024
RA6016
D1H84704A024
RA6017
D1H84704A024
RA6018
D1H84704A024
R6005 33
R6006 33
RA6019
D1H83304A024
RA6020
D1H83304A024
RA6040
D1H83304A024
RA6041
D1H83304A024
RA6042
D1H83304A024
RA6043
D1H83304A024
RA6012
D1H83304A024
RA6011
D1H83304A024
RA6010
D1H83304A024
RA6009
D1H83304A024
R6003
10K
FL6004
F1H0J1050018
F1H0J1050019
DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)

DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)

IC6005
MN103E010HYB
or MN103E030HYB
(MAIN CPU)

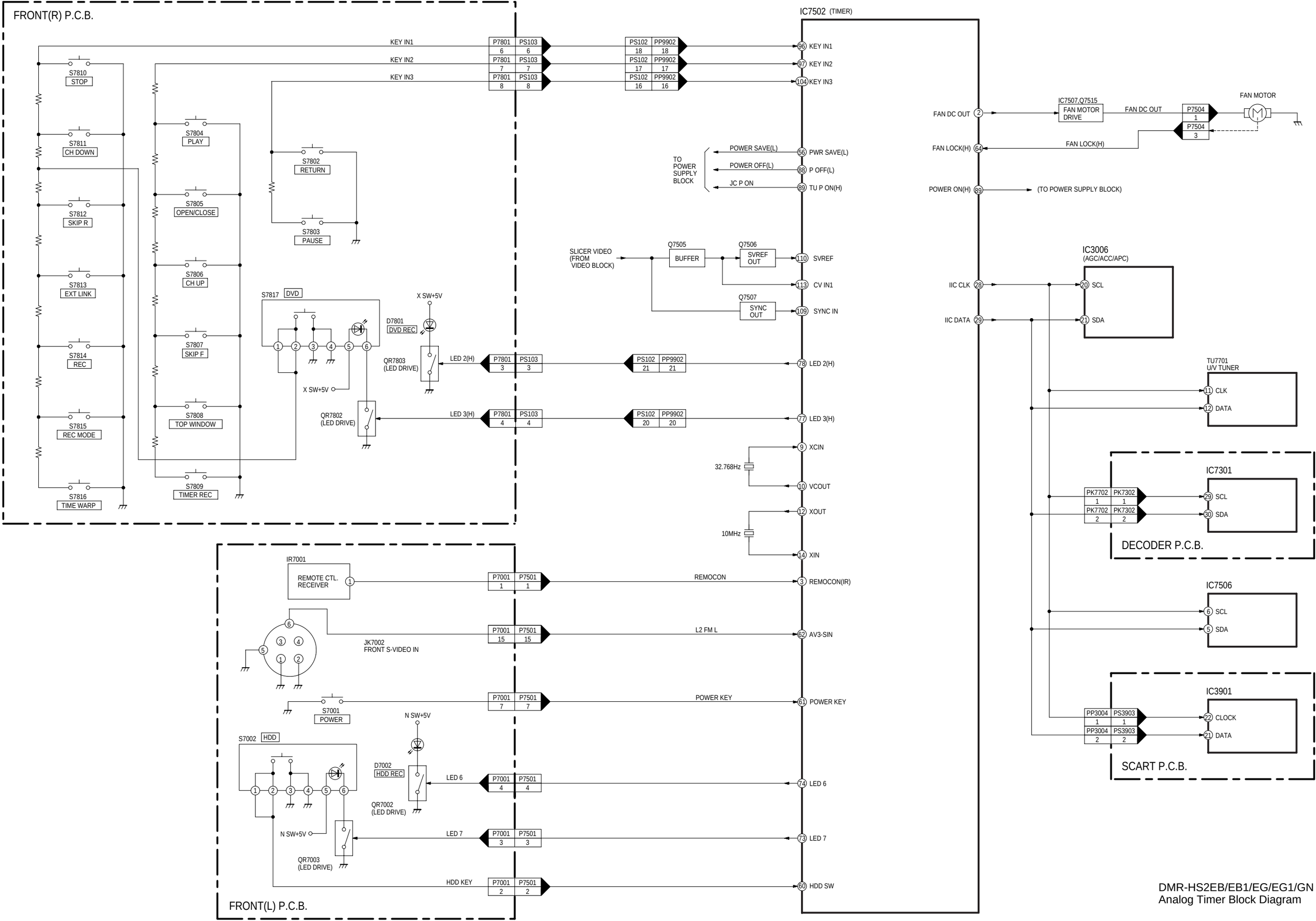
DMR-HS2EB/EB1/EG/EG1/GN System Control Section(Digital P.C.B.(5/7)) Schematic Diagram(S)



DMR-HS2EB/EB1/EG/EG1/GN System Control Section(Digital P.C.B.(5/7)) Schematic Diagram(S)

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

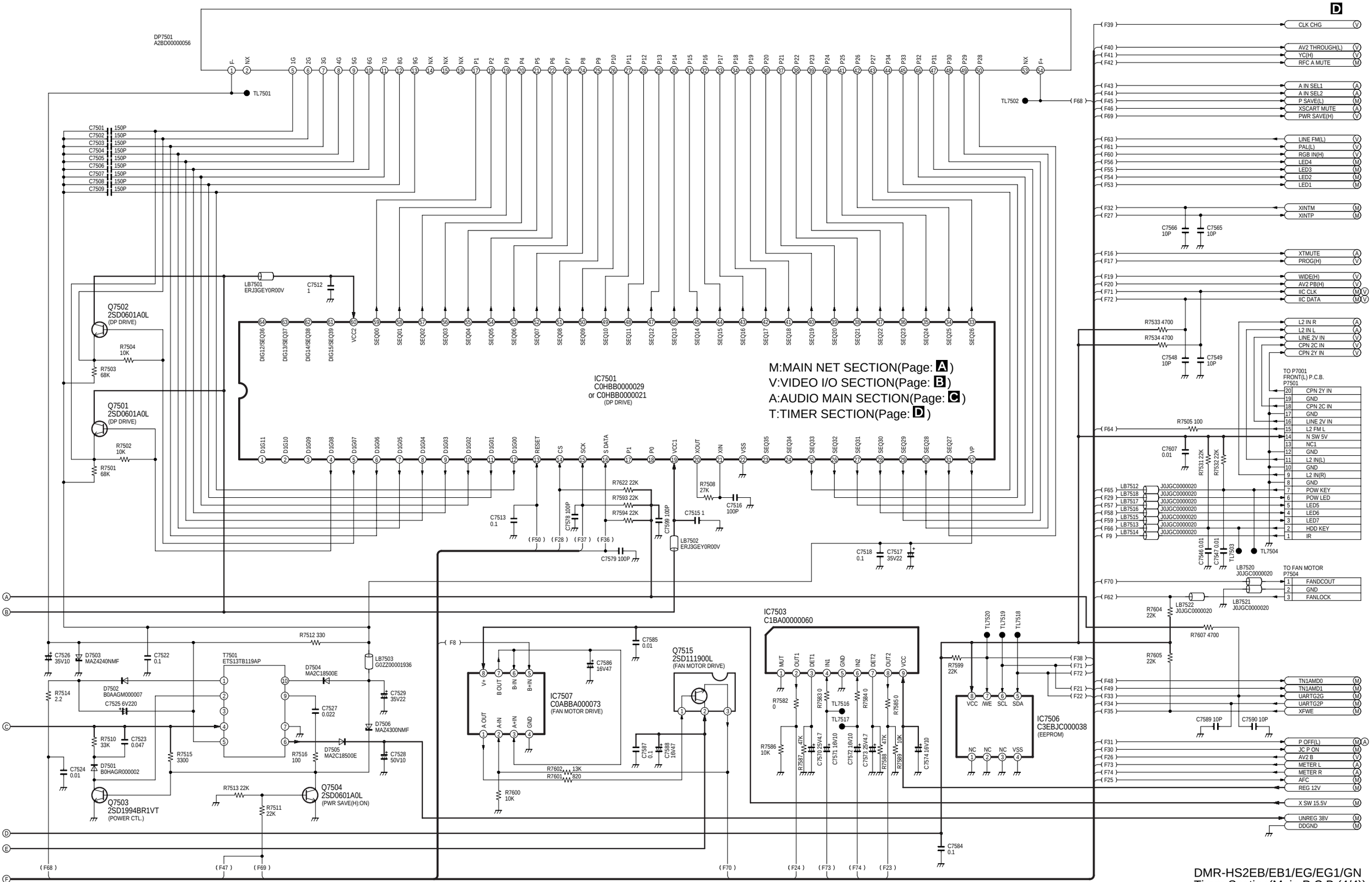
DMR-HS2EB/EB1/EG/EG1/GN
System Control Section(Digital P.C.B.(5/7))
Schematic Diagram(S)



DMR-HS2EB/EB1/EG/EG1/GN
Analog Timer Block Diagram

M:MAIN NET SECTION(Page: A)
V:VIDEO I/O SECTION(Page: B)
A:AUDIO MAIN SECTION(Page: C)
T:TIMER SECTION(Page: D)

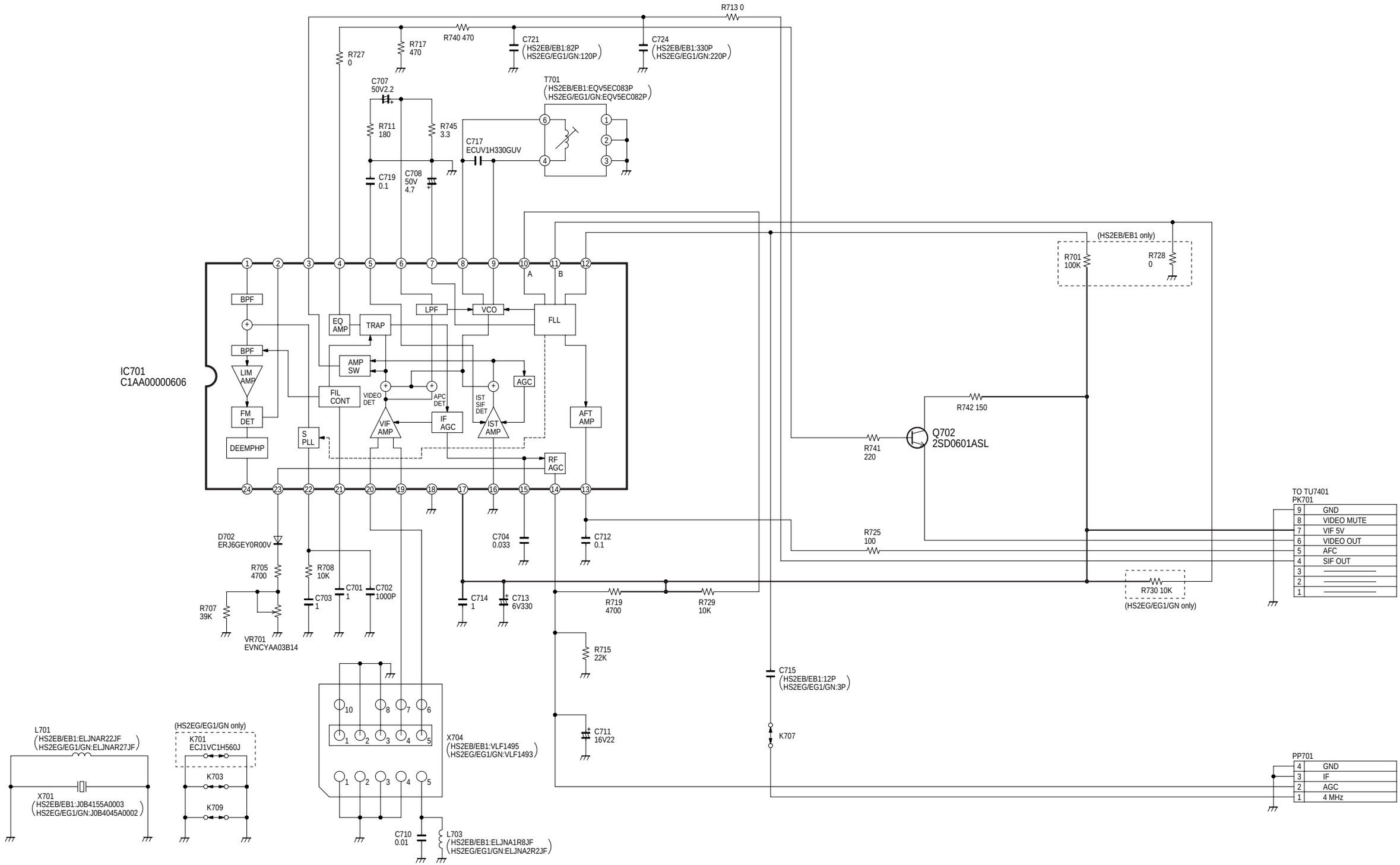
DMR-HS2EB/EB1/EG/EG1/GN
Timer Section(Main P.C.B.(4/4)) Schematic Diagram(T)



DMR-HS2EB/EB1/EG/EG1/GN
Timer Section(Main P.C.B.(4/4)) Schematic Diagram(T)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN
Timer Section(Main P.C.B.(4/4)) Schematic Diagram(T)



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
VIF Decoder Schematic Diagram

M:MAIN NET SECTION(Page: A)
V:VIDEO I/O SECTION(Page: B)
A:AUDIO MAIN SECTION(Page: C)
T:TIMER SECTION(Page: D)

AUDIO
AV4 R IN
AV4 R OUT
AV4 L IN
AV4 L OUT
VIDEO
AV4 V IN
AV4 V OUT
AV4 S-VIDEO IN
AV4 S-VIDEO OUT

JK3001
K1U822B00001

ZA9005
K9ZZ00000424
(BOTTOM-2)

AU GND
GND
C3065 47P
LB3001 J0JGC0000020
LB3002 J0JGC0000020
C3068 47P
LB3003 J0JGC0000020
LB3004 J0JGC0000020
LB3005 ER3JGE Y0R00V
LB3006 ER3JGE Y0R00V
LB3007 ER3JGE Y0R00V
LB3008 ER3JGE Y0R00V
LB3009 ER3JGE Y0R00V
LB3010 ER3JGE Y0R00V
C3066 470P
R3081 75
R3082 75
C3069 470P
C3070 0.01
C3071 0.1
C3072 0.01
R3086 75
R3087 75
C3022 16V10
C3021 16V10

L1 IN R
MIX R OUT2
L1 IN L
MIX L OUT2
RFC V OUT
LINE FM L

SLICER VIDEO
REG 5V
L3002 G0C220JA0019
R3083 10K
C3008 0.01
C3007 6V47
FL3003 ELB4B106B
R3033 560
C3013 0.01
R3034 2700
R3035 22K
C3014 0.01
R3037 33
R3036 22K
R3038 1K
Q3007 2SB1218A0L (AMP)

COUT DM
YOUT DM

JC REG5V
PS 12V
DECODER R
DECODER L
PS 5V
TUNER VIDEO
BOOSTER+5V
L3004 G0C220JA0019
FL3004 ELB4A029B
R3039 560
R3040 1K
R3041 100
C3015 0.01
R3042 1K
Q3008 2SB1218A0L (AMP)

IC3001
C1AB00001487
(SELECTOR SW.)
C3001 1
C3009 1

L3001 G0C220JA0019
L3003 G0C220JA0019
C3016 0.01
C3017 6V47
FL3005 ELB4C083B
R3047 560
C3018 0.01
R3044 100
R3043 10K
R3046 330
Q3009 2SB1218A0L (AMP)

C3019 0.01
FL3006 ELB4C083B
R3048 560
R3051 100
R3050 10K
R3053 330
Q3010 2SB1218A0L (AMP)

C3020 0.01
FL3007 ELB4C083B
R3049 560
R3055 100
R3054 10K
R3057 330
Q3011 2SB1218A0L (AMP)

TL3001
R3080 220
R3079 220
R3078 0
R3077 0
R3076 220
R3075 220
R3074 220
R3023 1500
Q3006 2SB1218A0L (BUFFER)

IC3006
C1AB00000791
(VIDEO BUFFER)
UV TUNER IN
(LCH T IN)
C IN
(RCH T IN)
Y IN
Y/C SEPA
V 1 OUT
LCH 1 OUT
C 1 OUT
RCH 1 OUT
Y 1 OUT
Y 2 OUT
V 2 OUT
C 2 OUT
CHIP SELECT
SDA
SCL
GND
VCC
VIDEO 2 IN L1
(LCH 2 IN)
C 2 IN
(RCH 2 IN)
Y 2 IN
VIDEO 3 IN
LCH 3 IN
C 3 IN
(RCH 3 IN)
Y 3 IN
VIDEO 4 IN
(LCH 4 IN)
C 4 IN
(RCH 4 IN)
Y 4 IN
DA
BIAS

C3041 0.01
C3042 6V47
C3040 1
C3039 0.01
C3038 50V1
C3037 1
C3035 1
C3036 0.01
C3034 50V1
C3033 0.01
C3032 50V1
C3031 16V10
R3084 75
R3085 75

Q3001 2SD1819A0L (AMP)
C3002 50V1
R3004 0
R3005 1K
R3006 33
R3007 2K
R3008 2K
FL3001 ELB4C082B
R3009 1K
C3006 6V47
R3010 470
C3003 0.01
C3004 6V47
Q3002 2SB1218A0L (AMP)
R3011 33

Q3003 2SD1819A0L (AMP)
C3005 0.1
R3015 0
R3016 1K
R3017 33
R3018 3.6K
R3019 3.6K
FL3002 ELB4B109B
R3020 1K
R3021 1K
Q3004 2SB1218A0L (AMP)
R3022 33

CPNCIN DM
CPNYIN DM
CPSVIN DM
CPN 2Y IN
CPN 2C IN
LINE 2V IN
IIC DATA
IIC CLK

TO PS3502
RGB P.C.B.
PP3002
PS 5V
CPN C OUT
GND
CPN Y OUT
GND
CPS V OUT
GND
R OUT
GND
G OUT
GND
B OUT

TO PS3901
SCART P.C.B.
PP3005
AV2 VIN
GND
CPN Y OUT
GND
CPS V OUT
GND
R OUT
GND
G OUT
GND
B OUT
GND

TO PS3902
SCART P.C.B.
PP3006
PWR SAVE(H)
P50
AV2 B
WIDE(H)
AV2 PB(H)
GND
L3 IN R
GND
L3 IN L
GND
AUDIO MUTE
MIX R OUT1
GND
MIX L OUT1
GND

MIX L OUT1
MIX R OUT1
AUDIO MUTE
L3 IN L
L3 IN R
AV2 PB(H)
WIDE(H)
AV2 B
P50
PWR SAVE(H)
PROG(H)

TO PS3501
RGB P.C.B.
PP3001
COUT DM
GND
YOUT DM
GND
RPROUT DM
GND
BPBOUT DM
GND
GPYOUT DM
GND
AV2 THROUGH(L)
YC(H)
GND
GND
GND

TO PS3903
SCART P.C.B.
PP3004
IIC CLK
IIC DATA
PROG(H)
BOOSTER+5V
TUNER VIDEO
PS 5V
GND
DECODER L
GND
DECODER R
GND
PS 12V
R/C IN
GND
G IN
GND
B IN
GND
SCART VIN
GND

TO PS3503
RGB P.C.B.
PP3003
R/C IN
GND
G IN
GND
B IN
GND
SCART VIN
GND
AV2 VIN
GND
PAL L
RGB IN(H)
CLK CHG
REG5V
GND
RGB C
GND
RGB Y

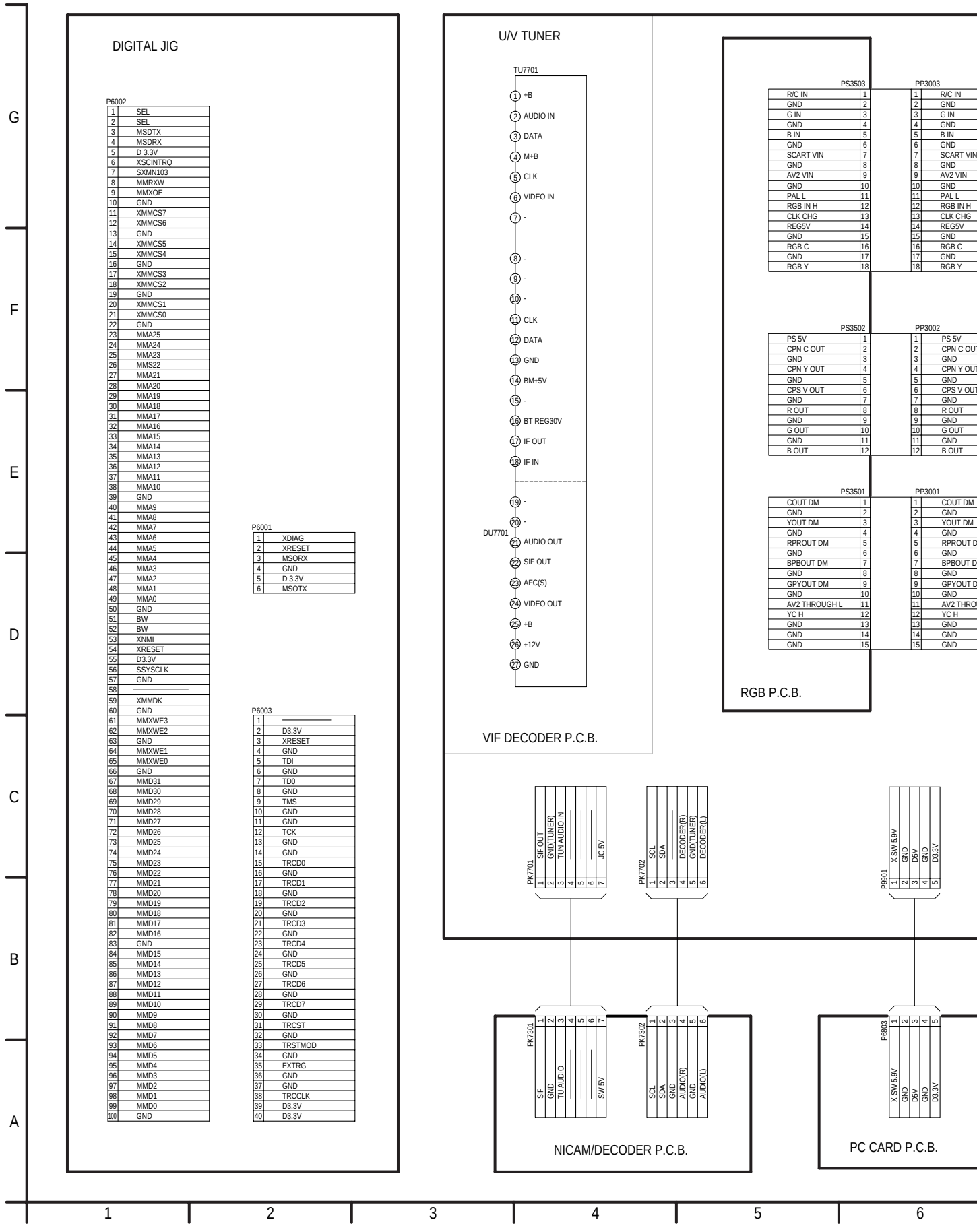
CLK CHG
RGB IN(H)
PAL L
YC(H)
AV2 THROUGH(L)
GPYOUT DM
RPROUT DM
BPBOUT DM

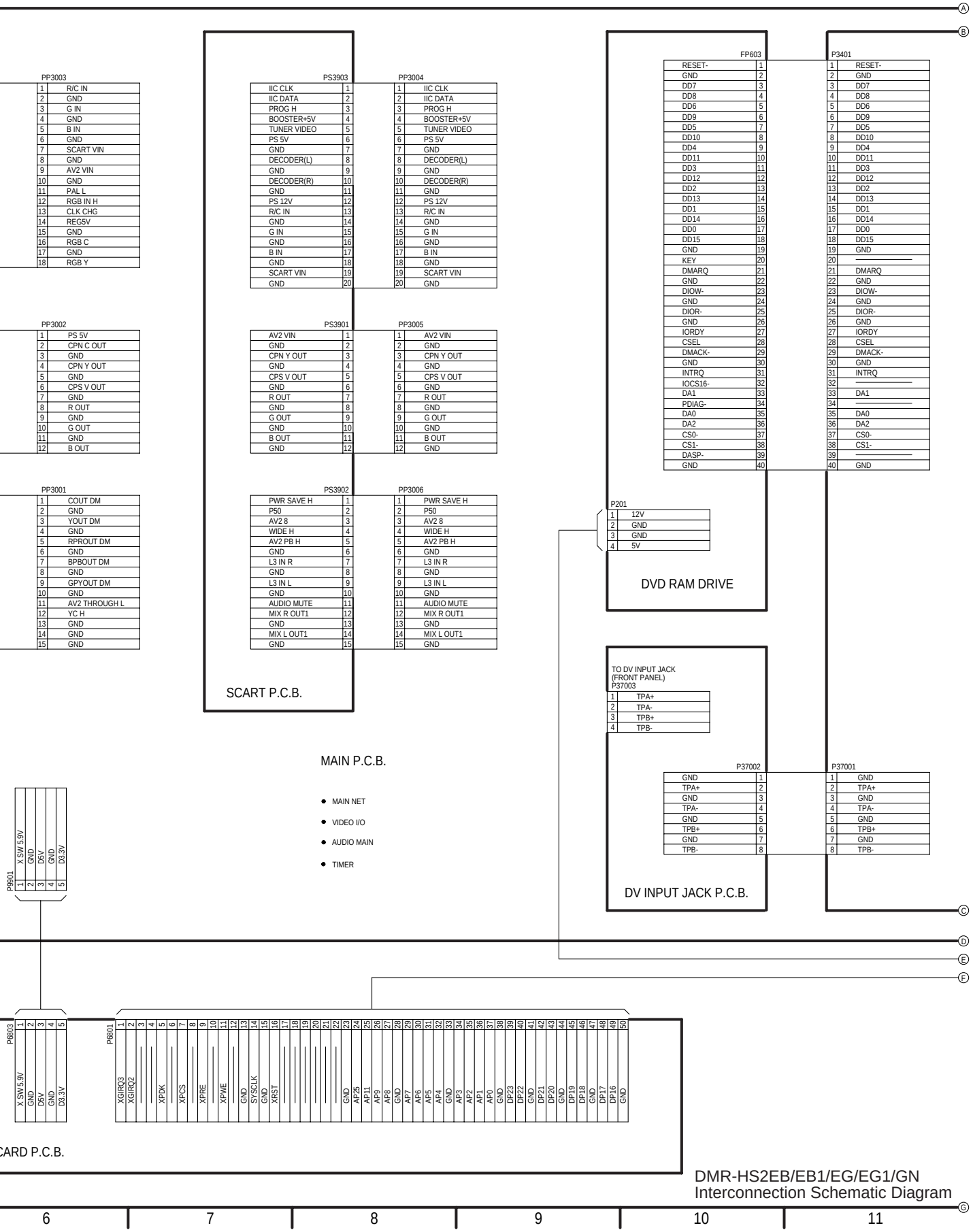
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

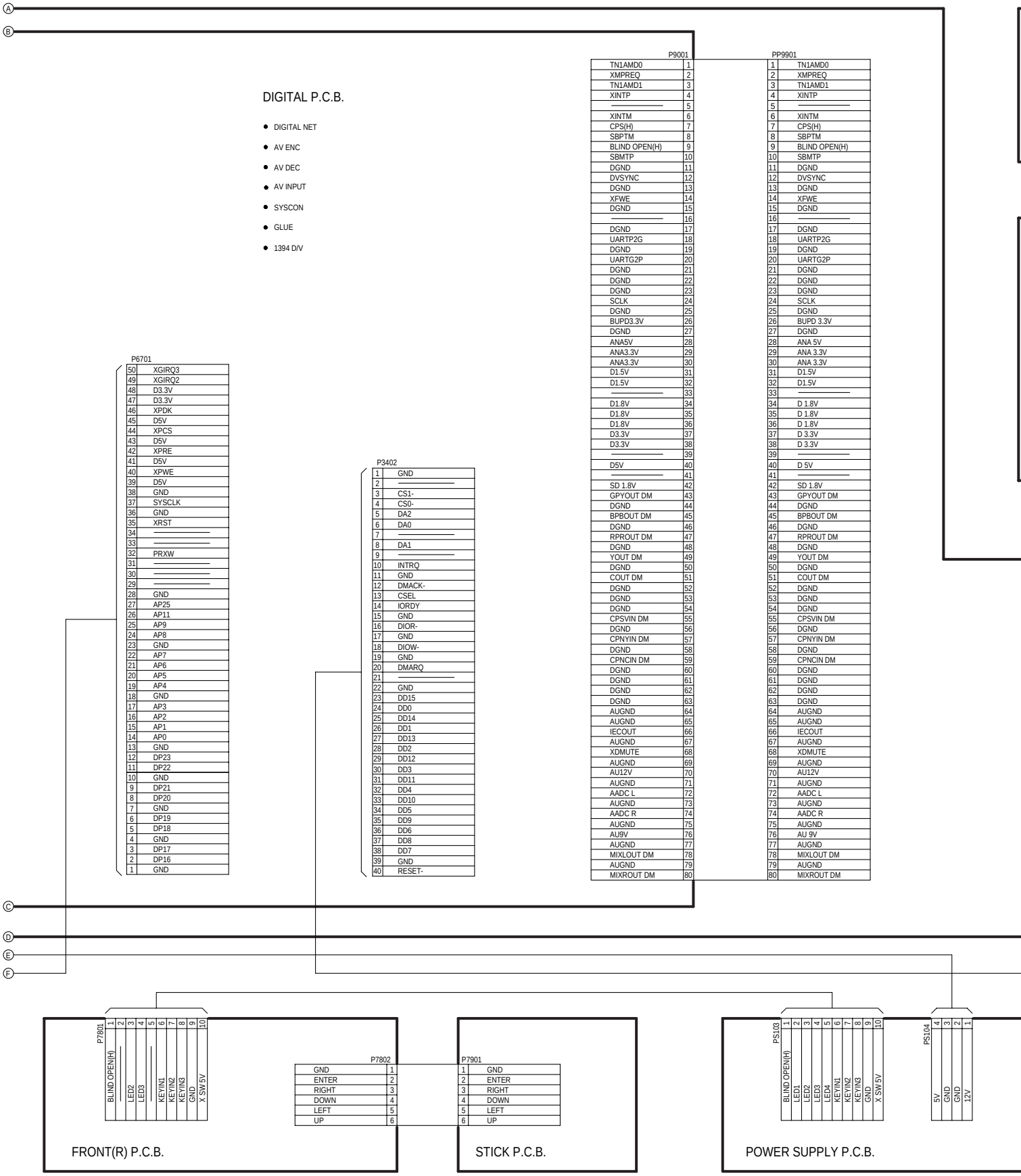
DMR-HS2EB/EB1/EG/EG1/GN
Video I/O Section(Main P.C.B.(2/4))
Schematic Diagram(V)

15 Schematic Diagram

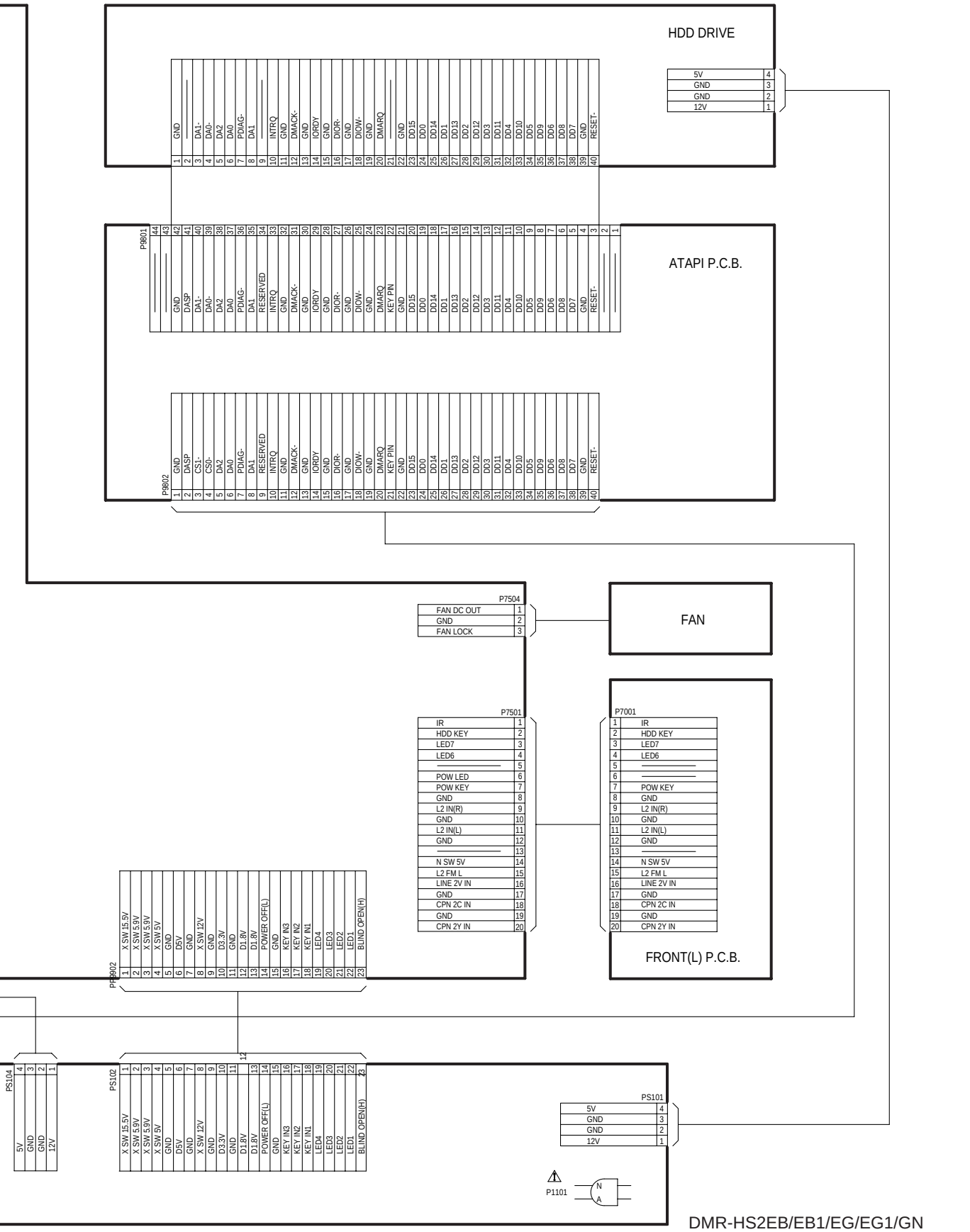
15.1. Interconnection Schematic Diagram




PP3003
1 R/C IN
2 GND
3 G IN
4 GND
5 B IN
6 GND
7 SCART VIN
8 GND
9 AV2 VIN
10 GND
11 PAL L
12 RGB IN H
13 CLK CHG
14 REG5V
15 GND
16 RGB C
17 GND
18 RGB Y
PP3002
1 PS 5V
2 CPN C OUT
3 GND
4 CPN Y OUT
5 GND
6 CPS V OUT
7 GND
8 R OUT
9 GND
10 G OUT
11 GND
12 B OUT
PP3001
1 COUT DM
2 GND
3 YOUT DM
4 GND
5 RPROUT DM
6 GND
7 BPBOUT DM
8 GND
9 GPYOUT DM
10 GND
11 AV2 THROUGH L
12 YC H
13 GND
14 GND
15 GND
PS3903
1 IIC CLK
2 IIC DATA
3 PROG H
4 BOOSTER+5V
5 TUNER VIDEO
6 PS 5V
7 GND
8 DECODER(L)
9 GND
10 DECODER(R)
11 GND
12 PS 12V
13 R/C IN
14 GND
15 G IN
16 GND
17 B IN
18 GND
19 SCART VIN
20 GND
PP3004
1 IIC CLK
2 IIC DATA
3 PROG H
4 BOOSTER+5V
5 TUNER VIDEO
6 PS 5V
7 GND
8 DECODER(L)
9 GND
10 DECODER(R)
11 GND
12 PS 12V
13 R/C IN
14 GND
15 G IN
16 GND
17 B IN
18 GND
19 SCART VIN
20 GND
PS3901
1 AV2 VIN
2 GND
3 CPN Y OUT
4 GND
5 CPS V OUT
6 GND
7 R OUT
8 GND
9 G OUT
10 GND
11 B OUT
12 GND
PP3005
1 AV2 VIN
2 GND
3 CPN Y OUT
4 GND
5 CPS V OUT
6 GND
7 R OUT
8 GND
9 G OUT
10 GND
11 B OUT
12 GND
PS3902
1 PWR SAVE H
2 P50
3 AV2 8
4 WIDE H
5 AV2 PB H
6 GND
7 L3 IN R
8 GND
9 L3 IN L
10 GND
11 AUDIO MUTE
12 MIX R OUT1
13 GND
14 MIX L OUT1
15 GND
PP3006
1 PWR SAVE H
2 P50
3 AV2 8
4 WIDE H
5 AV2 PB H
6 GND
7 L3 IN R
8 GND
9 L3 IN L
10 GND
11 AUDIO MUTE
12 MIX R OUT1
13 GND
14 MIX L OUT1
15 GND
SCART P.C.B.
MAIN P.C.B.
MAIN NET
VIDEO I/O
AUDIO MAIN
TIMER
FP603
1 RESET-
2 GND
3 DD7
4 DD8
5 DD6
6 DD9
7 DD5
8 DD10
9 DD4
10 DD11
11 DD3
12 DD12
13 DD2
14 DD13
15 DD1
16 DD14
17 DD0
18 DD15
19 GND
20 KEY
21 DMARQ
22 GND
23 DIOW-
24 GND
25 DIOR-
26 GND
27 IORDY
28 CSEL
29 DMACK-
30 GND
31 INTRQ
32 IOCS16-
33 DA1
34 PDIAG-
35 DA0
36 DA2
37 CS0-
38 CS1-
39 DASP-
40 GND
P3401
1 RESET-
2 GND
3 DD7
4 DD8
5 DD6
6 DD9
7 DD5
8 DD10
9 DD4
10 DD11
11 DD3
12 DD12
13 DD2
14 DD13
15 DD1
16 DD14
17 DD0
18 DD15
19 GND
20 ———
21 DMARQ
22 GND
23 DIOW-
24 GND
25 DIOR-
26 GND
27 IORDY
28 CSEL
29 DMACK-
30 GND
31 INTRQ
32 ———
33 DA1
34 ———
35 DA0
36 DA2
37 CS0-
38 CS1-
39 ———
40 GND
P201
1 12V
2 GND
3 GND
4 5V
DVD RAM DRIVE
TO DV INPUT JACK
(FRONT PANEL)
P37003
1 TPA+
2 TPA-
3 TPB+
4 TPB-
P37002
1 GND
2 TPA+
3 GND
4 TPA-
5 GND
6 TPB+
7 GND
8 TPB-
P37001
1 GND
2 TPA+
3 GND
4 TPA-
5 GND
6 TPB+
7 GND
8 TPB-
DV INPUT JACK P.C.B.
P9801
1 X SW 5.9V
2 GND
3 D5V
4 GND
5 D3.3V
P8803
1 X SW 5.9V
2 GND
3 D5V
4 GND
5 D3.3V
P8801
1 XGIRQ3
2 XGIRQ2
3 ———
4 ———
5 XPDK
6 XPCS
7 ———
8 XPRE
9 ———
10 XPWE
11 ———
12 GND
13 SYSCLK
14 GND
15 XRST
16 ———
17 ———
18 ———
19 ———
20 ———
21 ———
22 GND
23 AP25
24 AP11
25 AP9
26 AP8
27 GND
28 AP7
29 AP6
30 AP5
31 AP4
32 GND
33 AP3
34 AP2
35 AP1
36 AP0
37 GND
38 DP23
39 DP22
40 GND
41 DP21
42 DP20
43 GND
44 DP19
45 DP18
46 GND
47 DP17
48 DP16
49 GND
50
CARD P.C.B.
DMR-HS2EB/EB1/EG/EG1/GN
Interconnection Schematic Diagram
A
B
C
D
E
F
G
6
7
8
9
10
11



DMR-HS2EB/EB1/EG/EG1/GN Interconnection Schematic Diagram

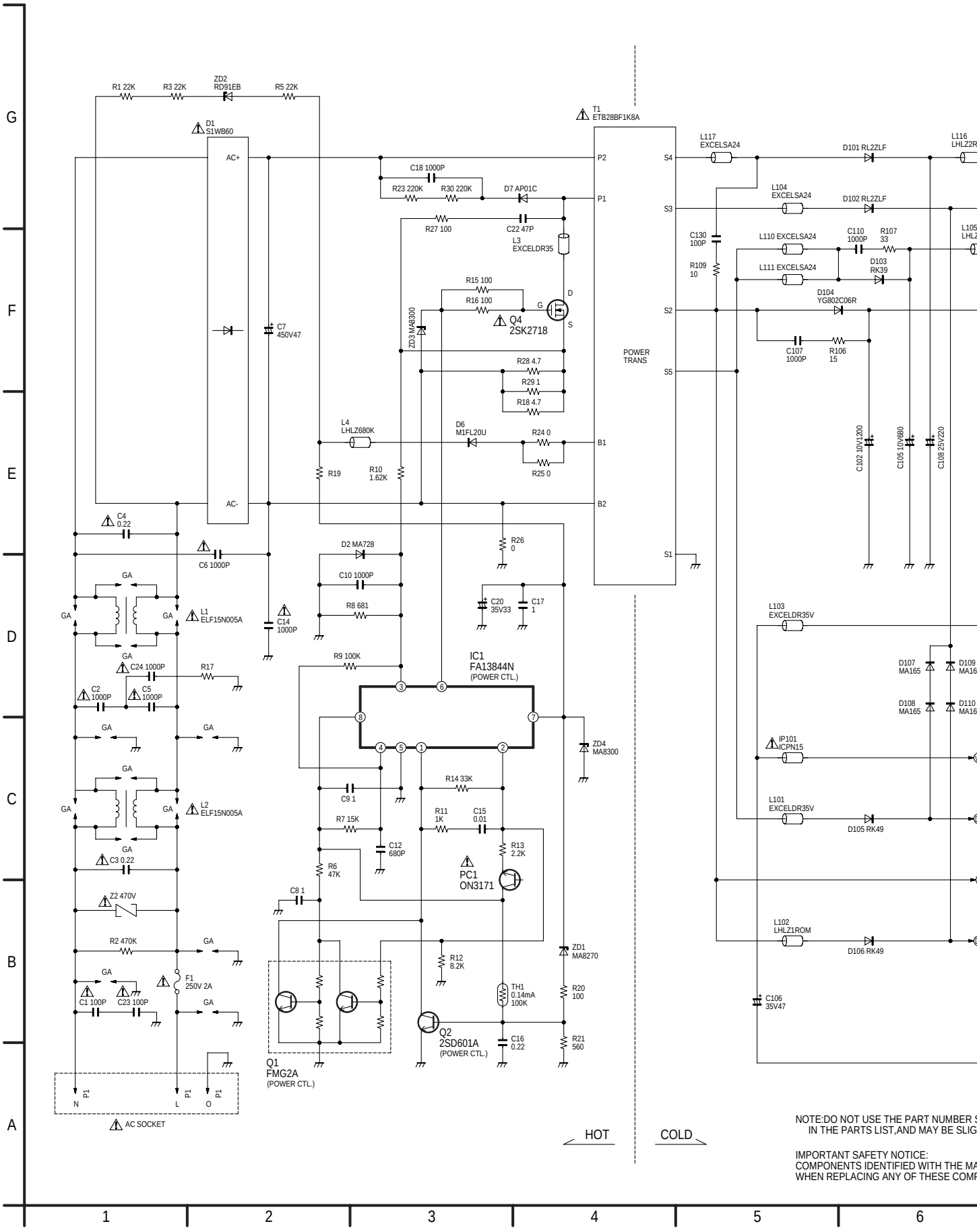


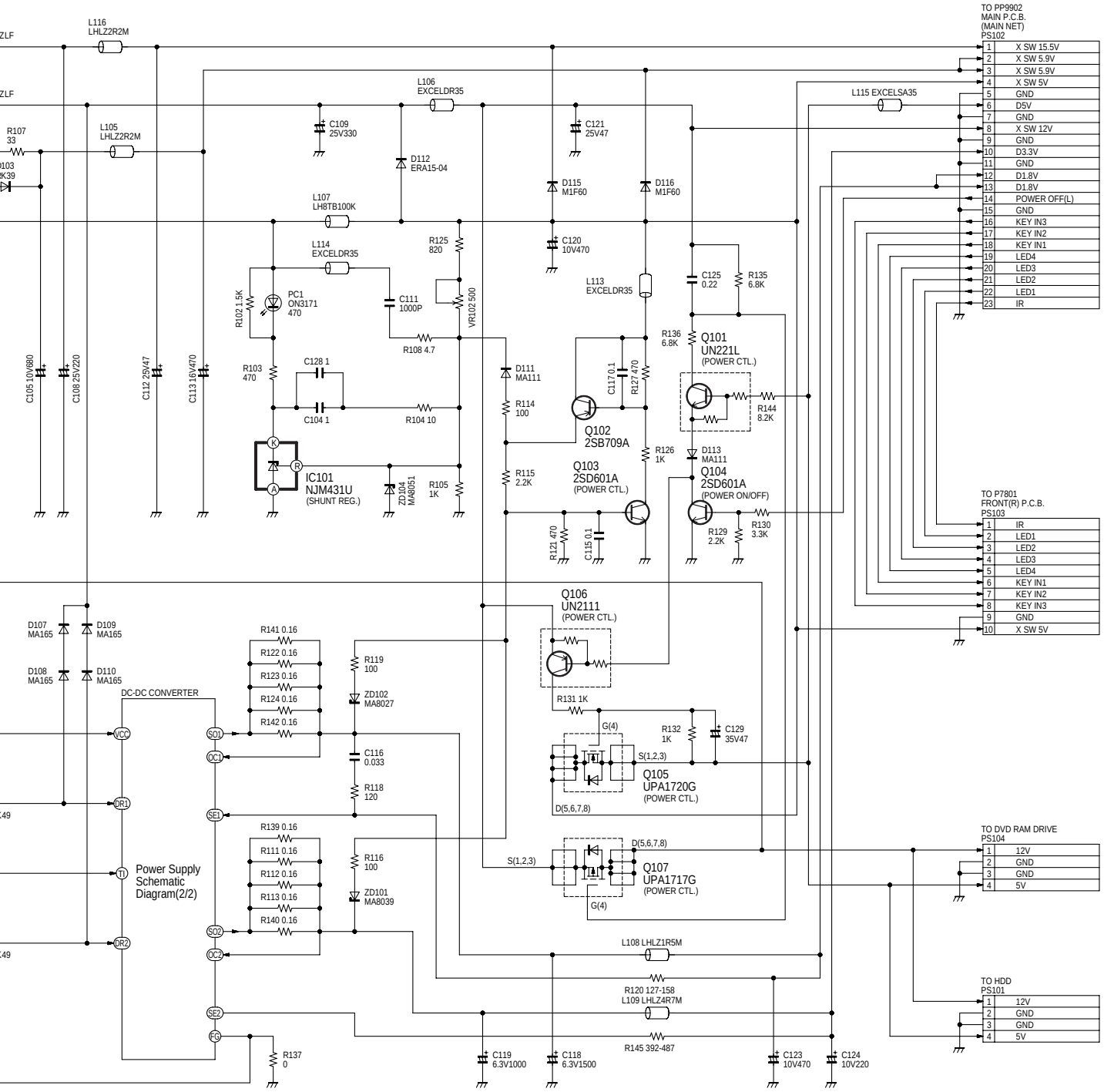
DMR-HS2EB/EB1/EG/EG1/GN
Interconnection Schematic Diagram

ram

17 | 18 | 19 | 20 | 21

15.2. Power Supply Schematic Diagram (Power Supply P.C.B. (1/2))





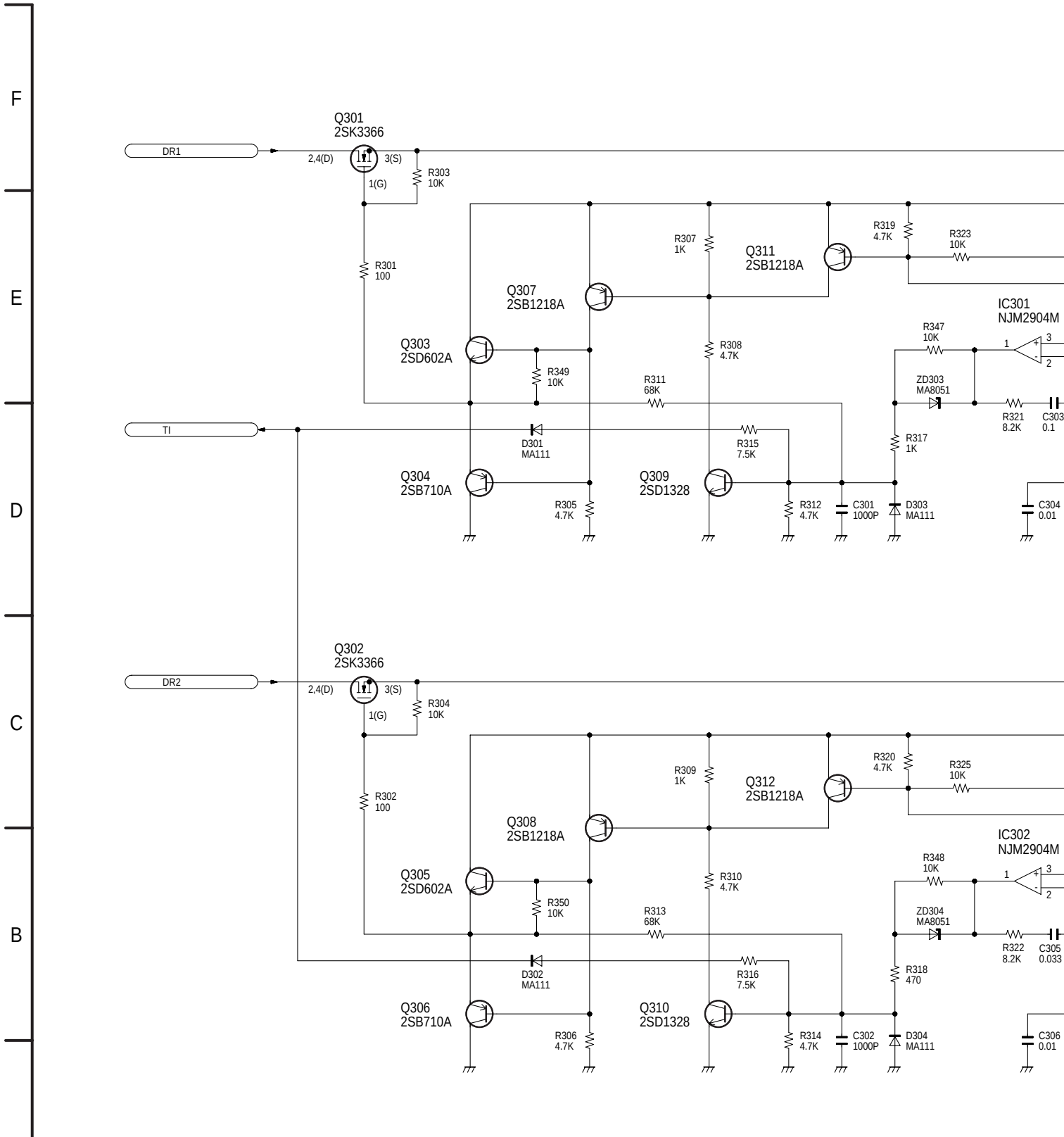
E THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN
LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

TY NOTICE:
ENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
G ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

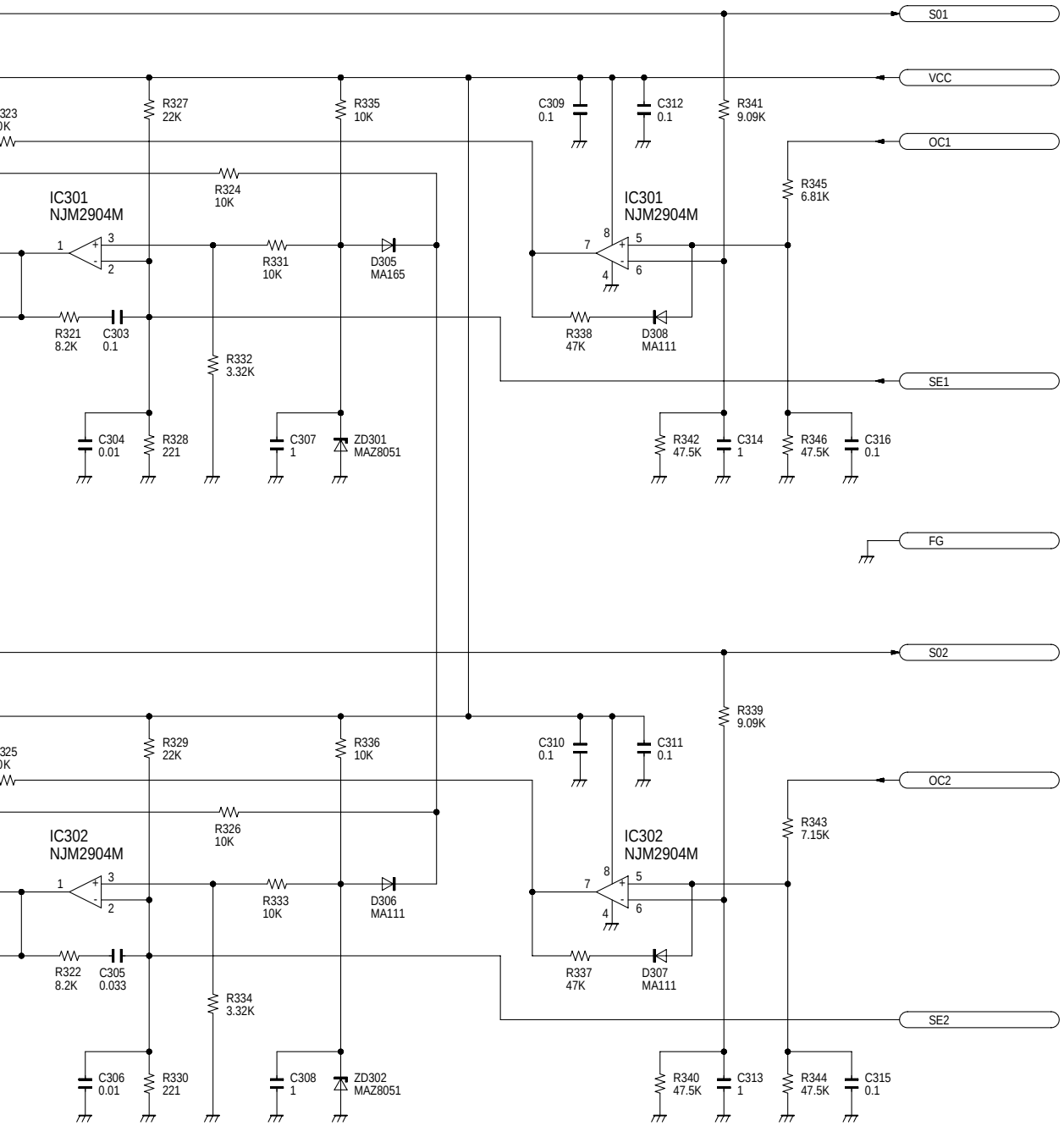
DMR-HS2EB/EB1/EG/EG1/GN
Power Supply Schematic Diagram
(Power Supply P.C.B.(1/2))

6 | 7 | 8 | 9 | 10 | 11

15.3. Power Supply Schematic Diagram (Power Supply P.C.B. (2/2))



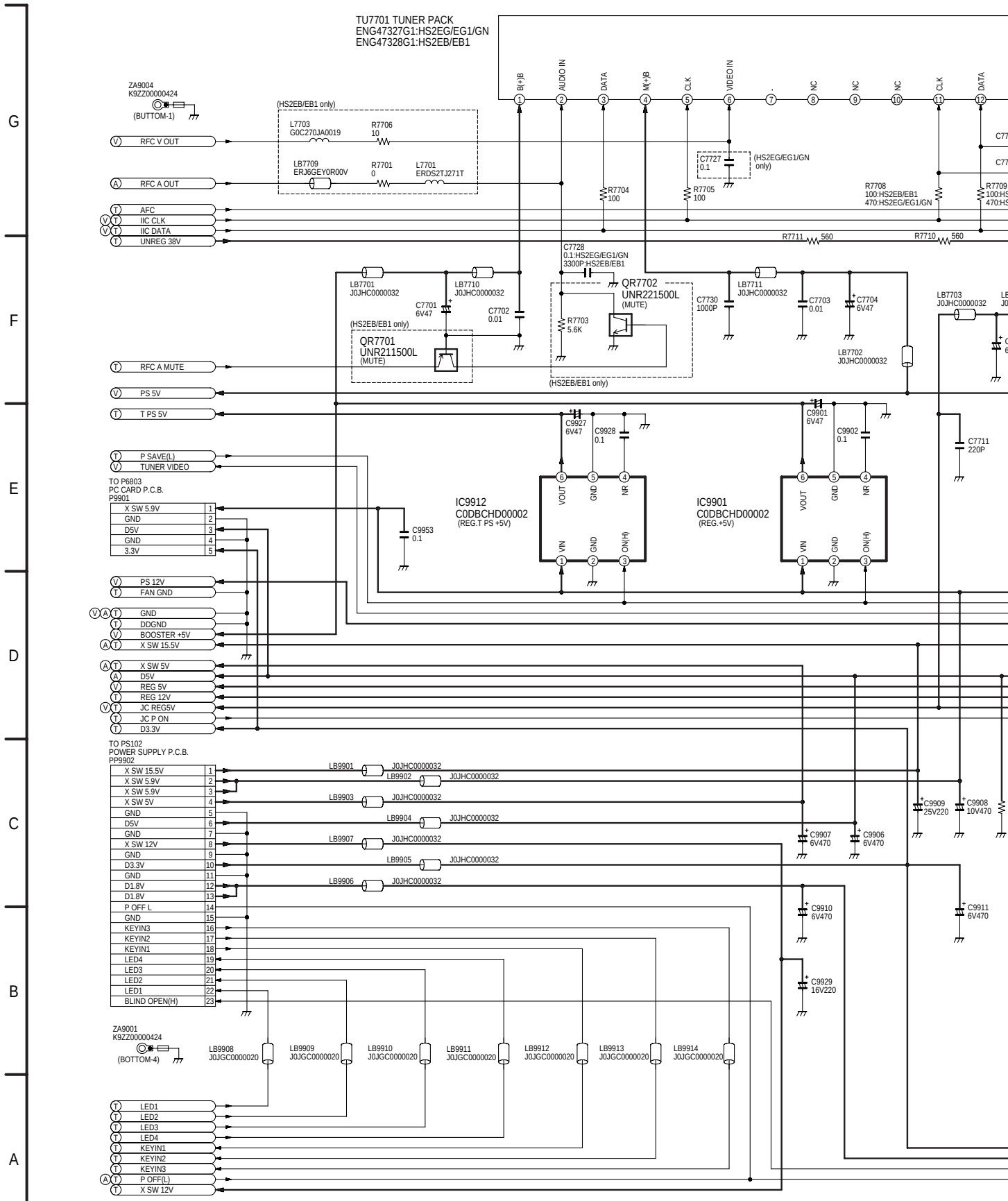
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

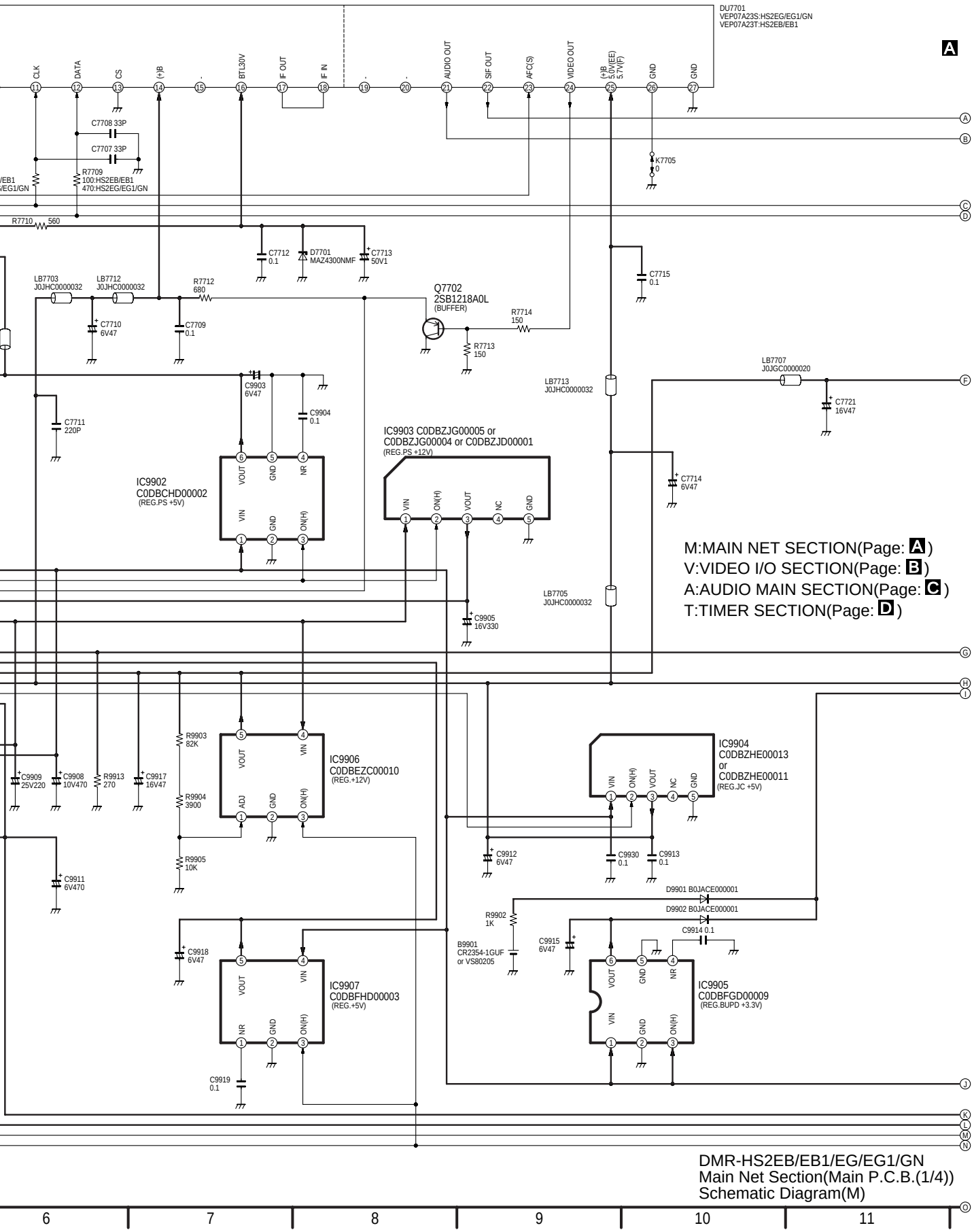


DMR-HS2EB/EB1/EG/EG1/GN
Power Supply Schematic Diagram
(Power Supply P.C.B.(2/2))

5 | 6 | 7 | 8 | 9

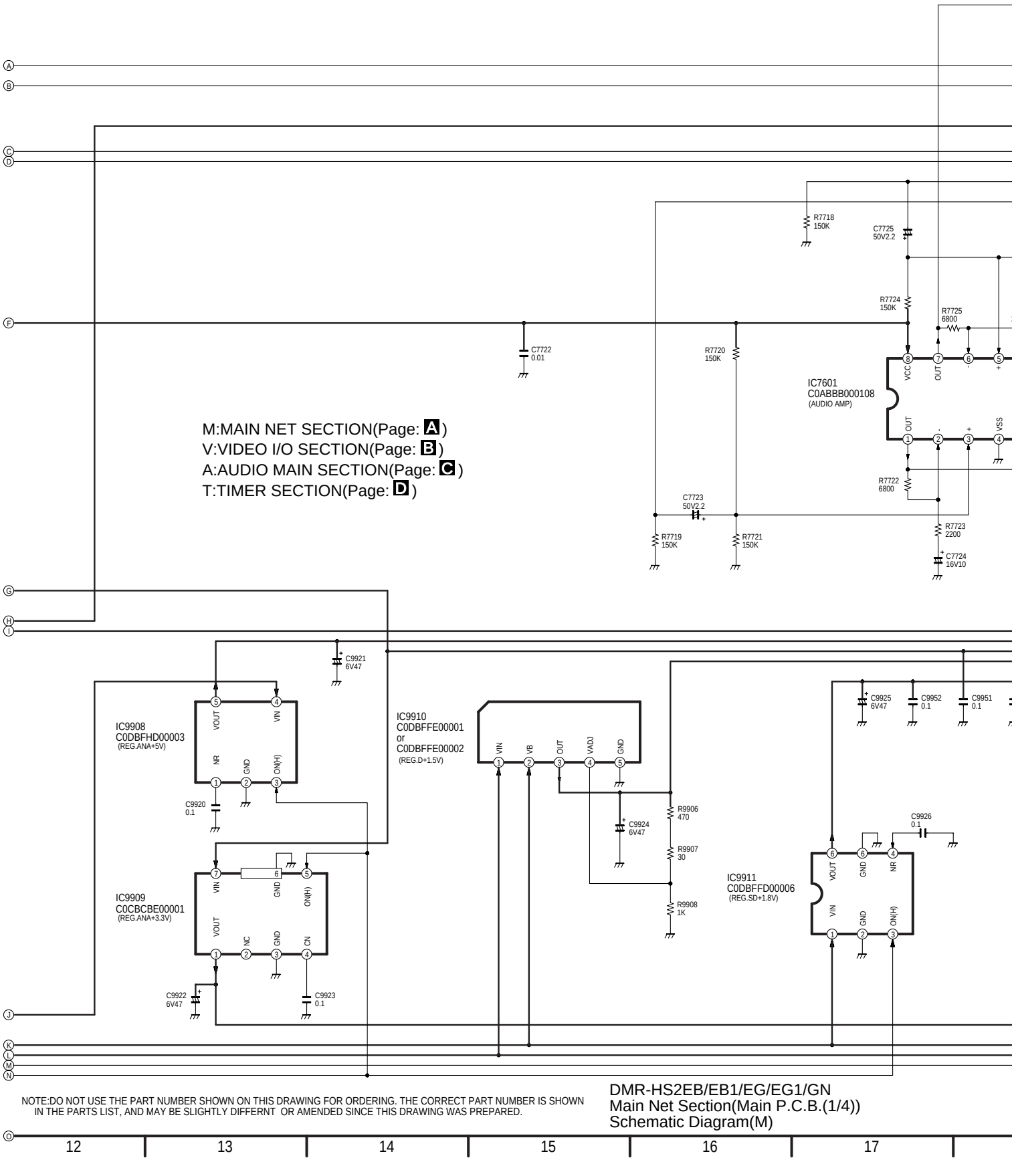
15.4. Main Net Section (Main P.C.B. (1/4)) Schematic Diagram (M)





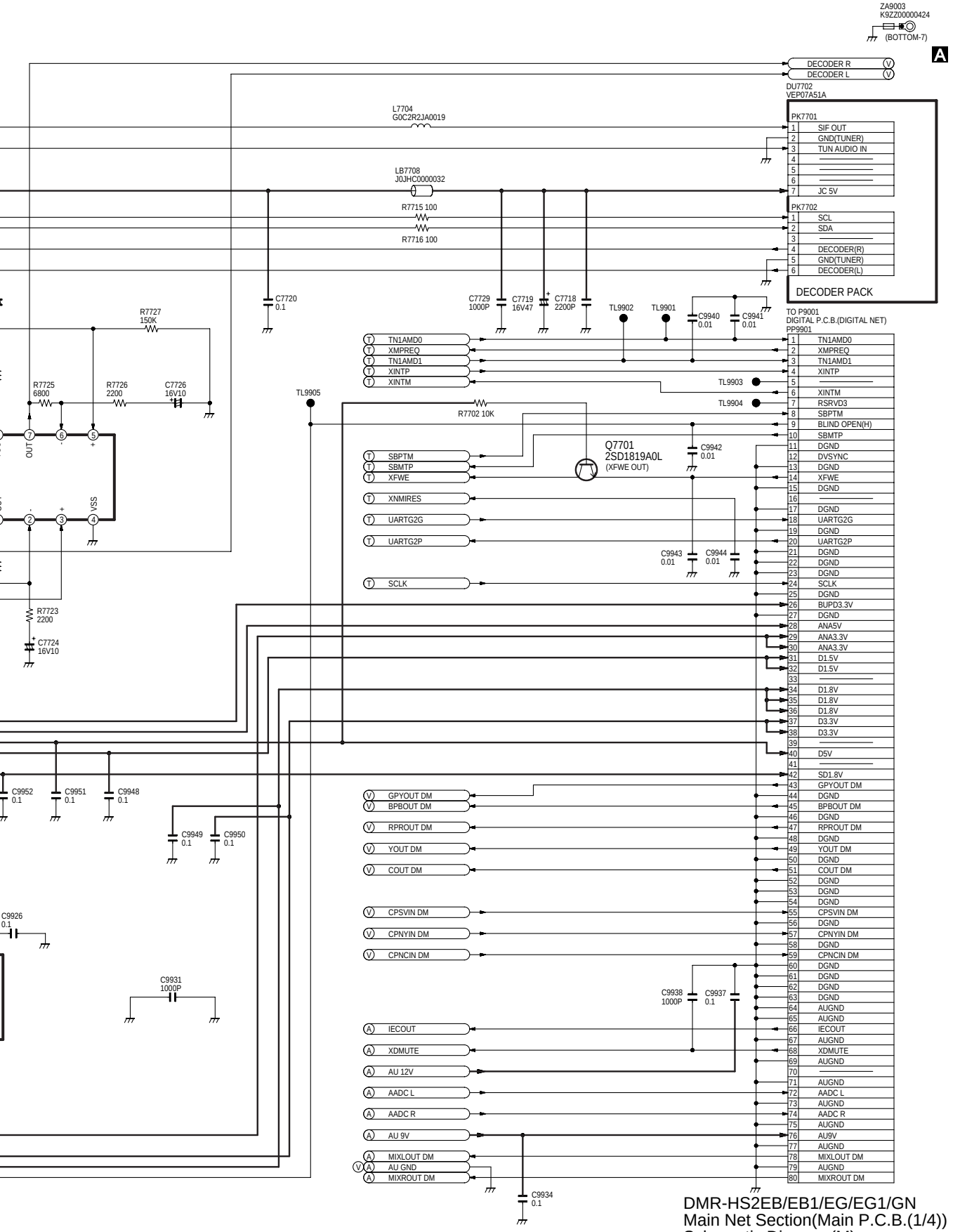
DMR-HS2EB/EB1/EG/EG1/GN
Main Net Section(Main P.C.B.(1/4))
Schematic Diagram(M)

6 7 8 9 10 11



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

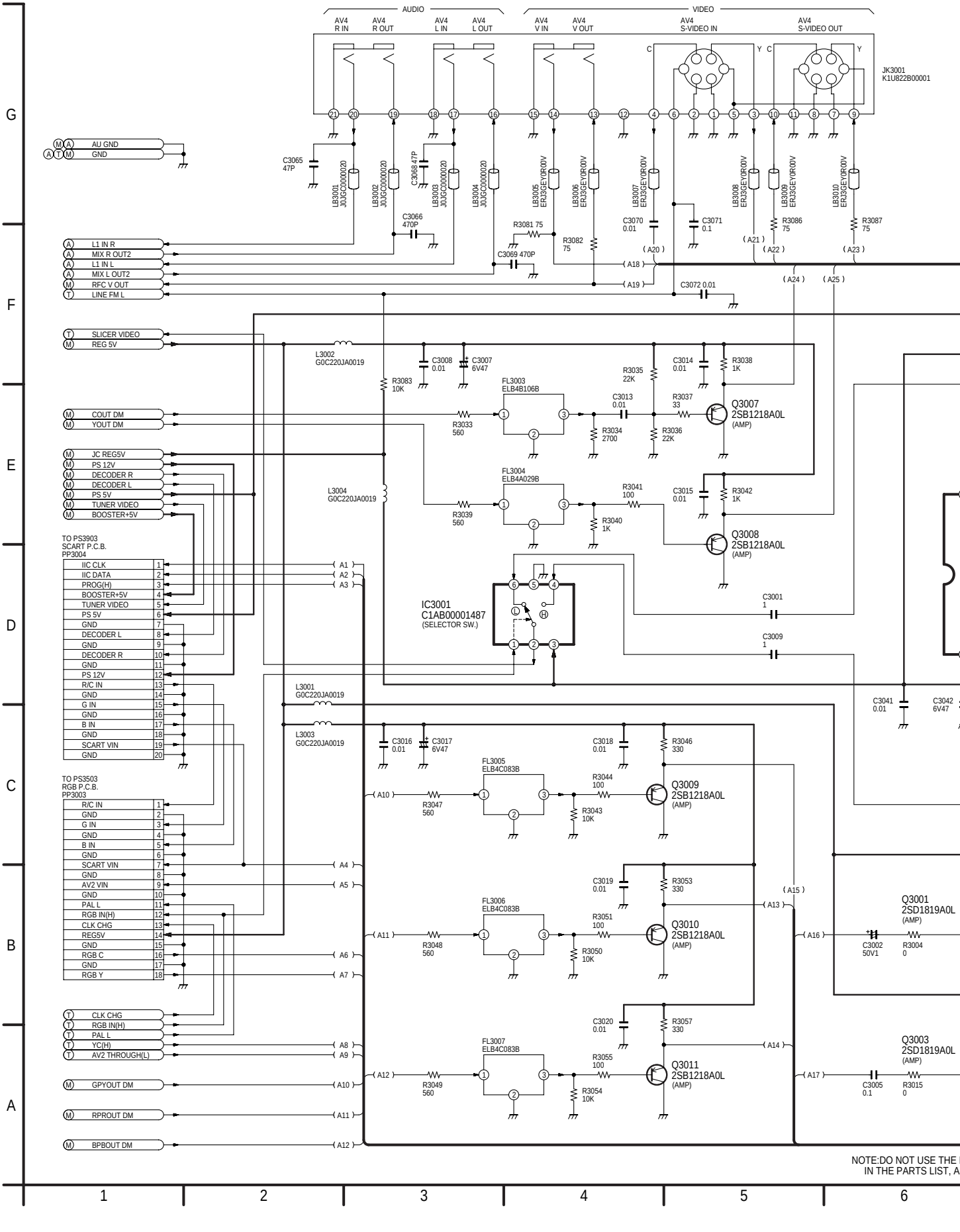
DMR-HS2EB/EB1/EG/EG1/GN
Main Net Section(Main P.C.B.(1/4))
Schematic Diagram(M)



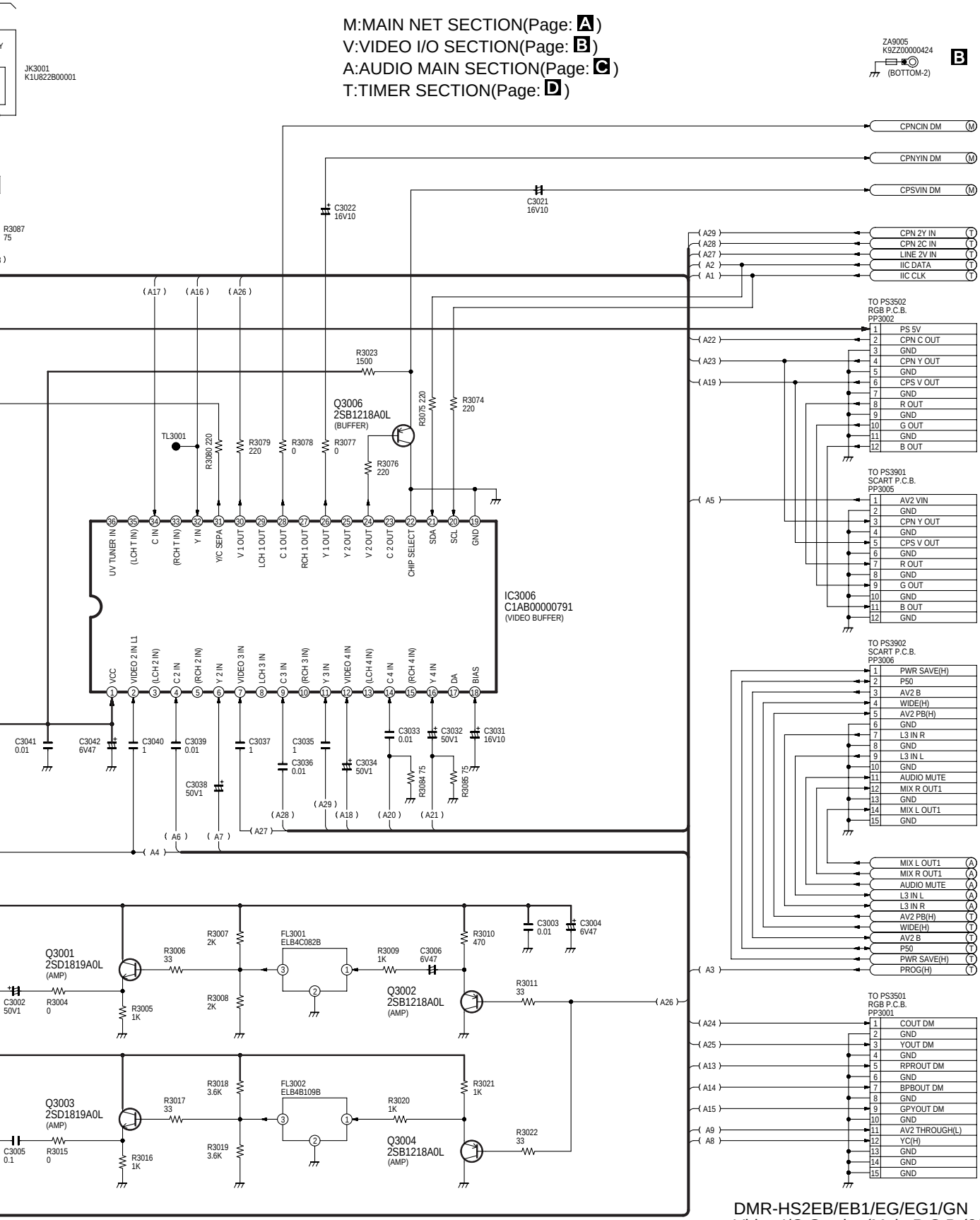
DMR-HS2EB/EB1/EG/EG1/GN
Main Net Section(Main P.C.B.(1/4))
Schematic Diagram(M)

18 19 20 21 22

15.5. Video I/O Section (Main P.C.B. (2/4)) Schematic Diagram (V)



M:MAIN NET SECTION(Page: A)
V:VIDEO I/O SECTION(Page: B)
A:AUDIO MAIN SECTION(Page: C)
T:TIMER SECTION(Page: D)

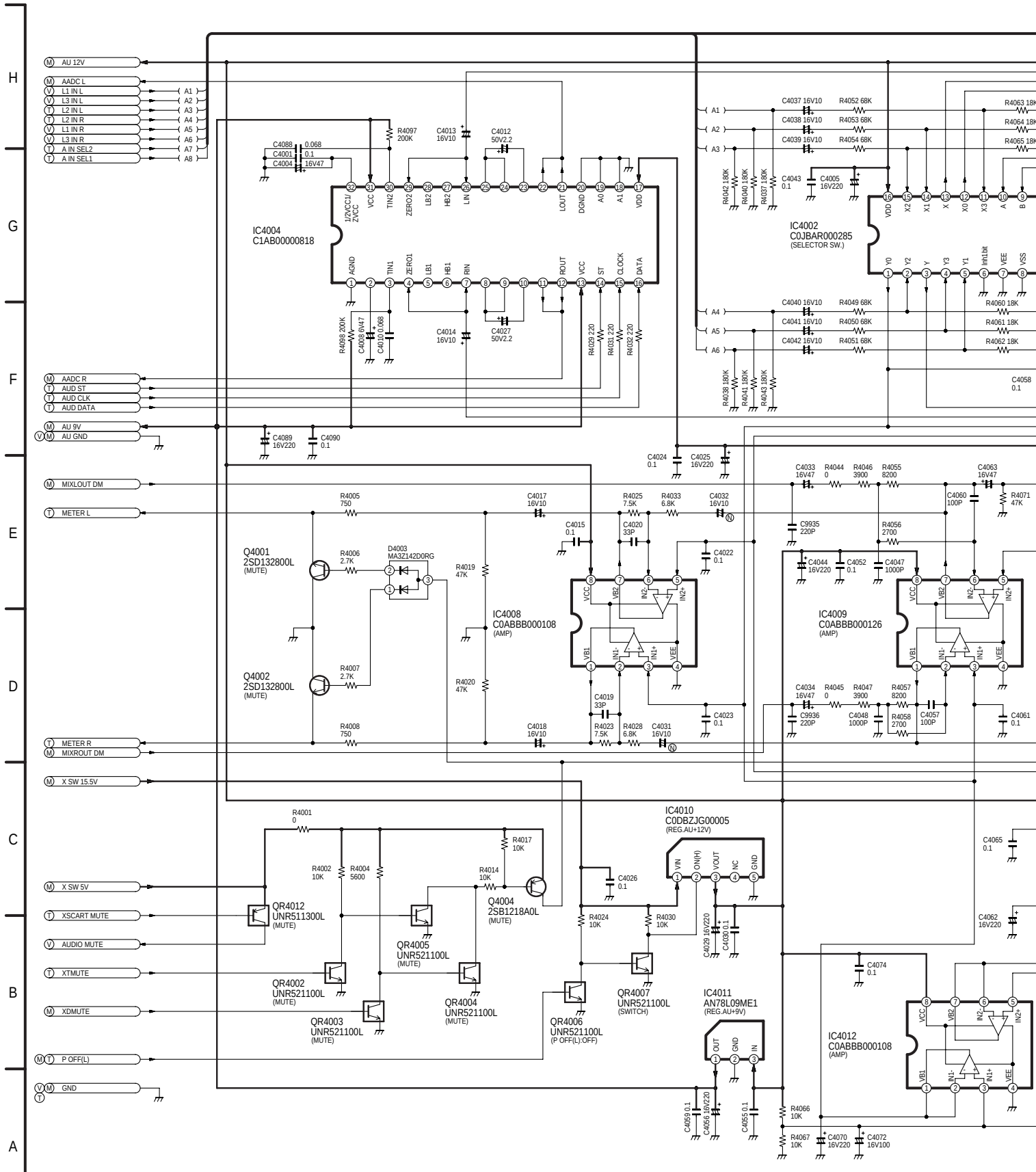


DMR-HS2EB/EB1/EG/EG1/GN
Video I/O Section(Main P.C.B.(2/4))
Schematic Diagram(V)

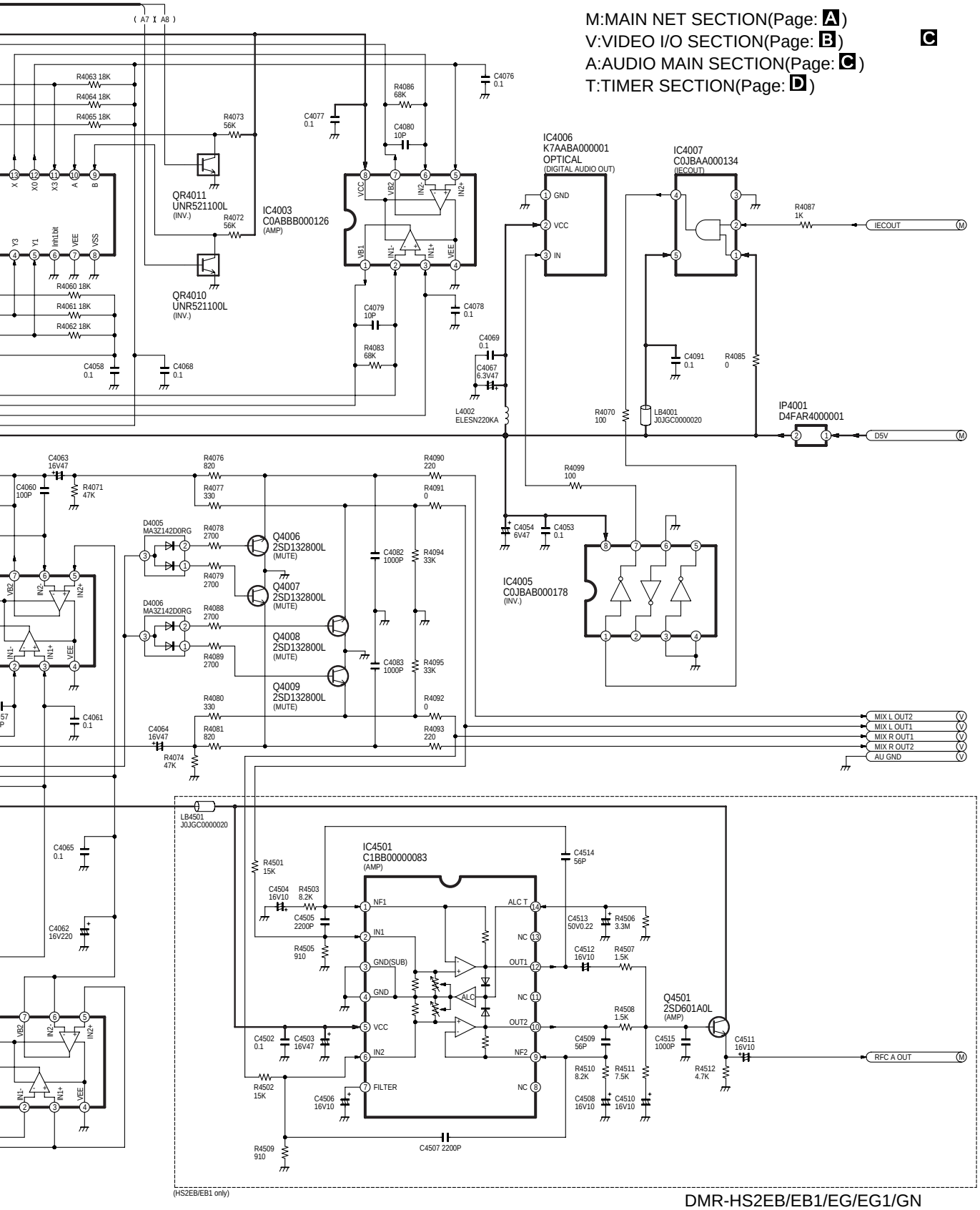
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

6 | 7 | 8 | 9 | 10 | 11

15.6. Audio Main Section (Main P.C.B. (3/4)) Schematic Diagram (A)



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS
IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERN

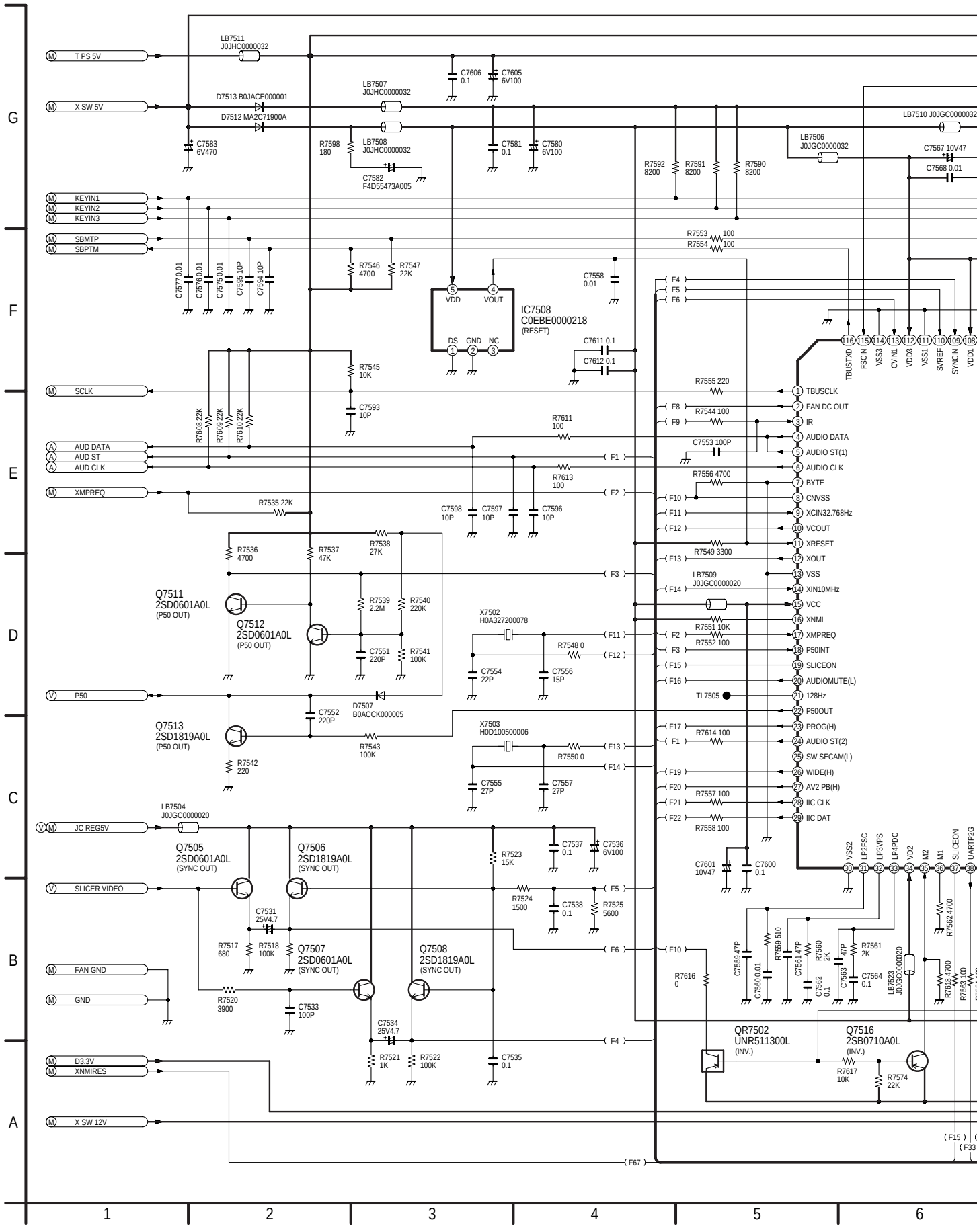


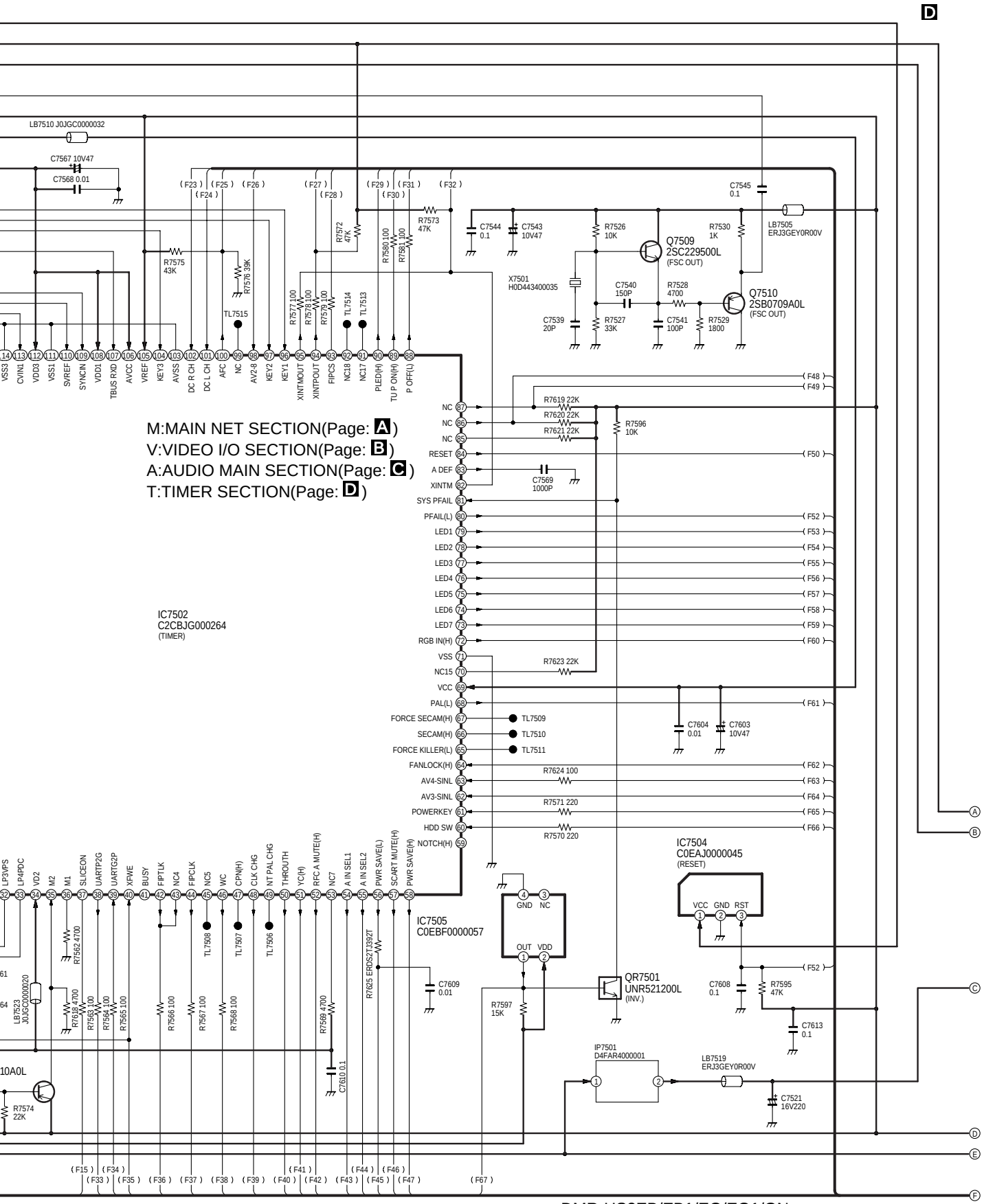
NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
Y BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN
Audio Main Section(Main P.C.B.(3/4))
Schematic Diagram(A)

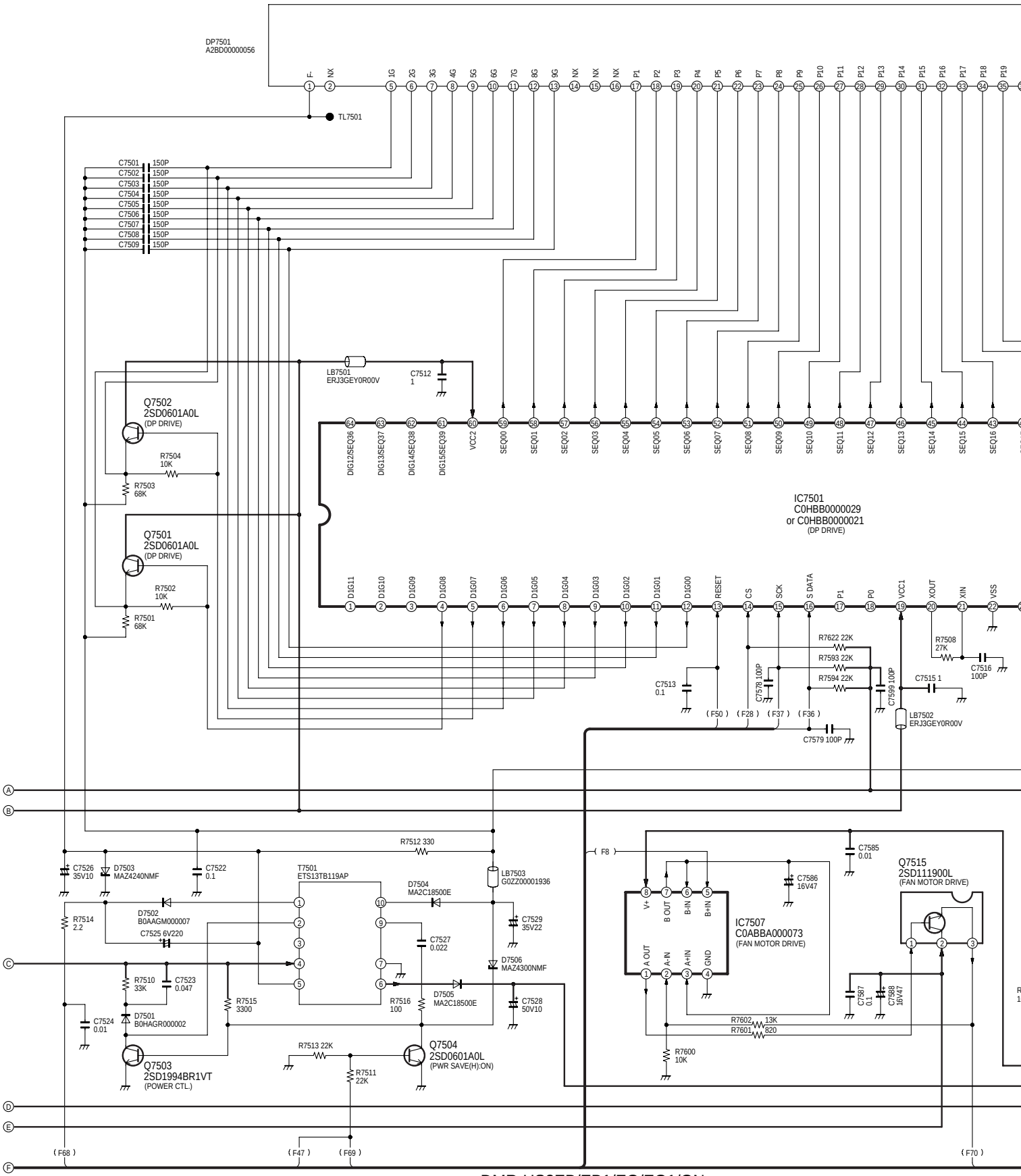
7 | 8 | 9 | 10 | 11 | 12

15.7. Timer Section (Main P.C.B. (4/4)) Schematic Diagram (T)





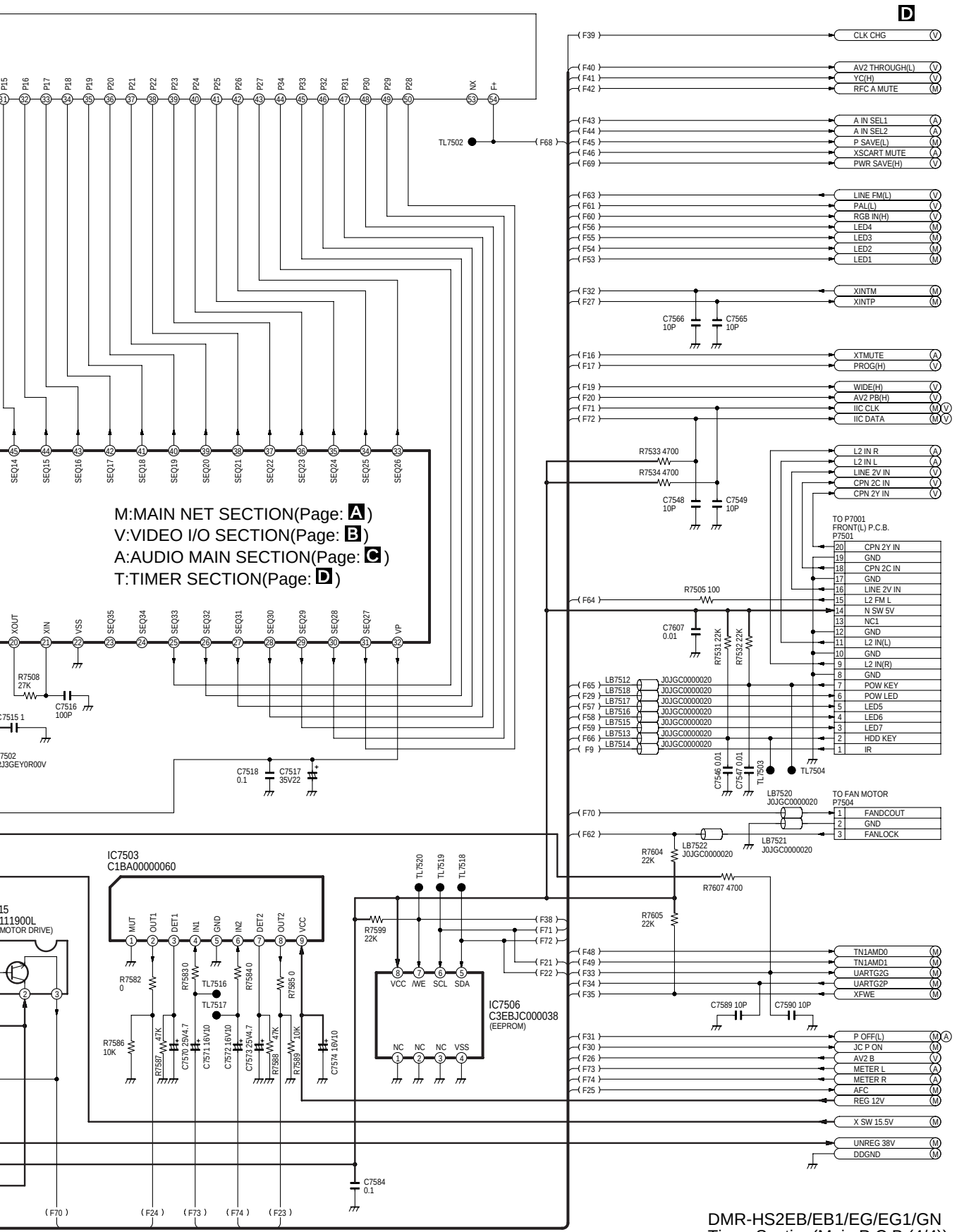
DMR-HS2EB/EB1/EG/EG1/GN
Timer Section(Main P.C.B.(4/4)) Schematic Diagram(T)



DMR-HS2EB/EB1/EG/EG1/GN
Timer Section(Main P.C.B.(4/4)) Schematic Diagram(T)

NOTE:D
IN TH

12 13 14 15 16 17

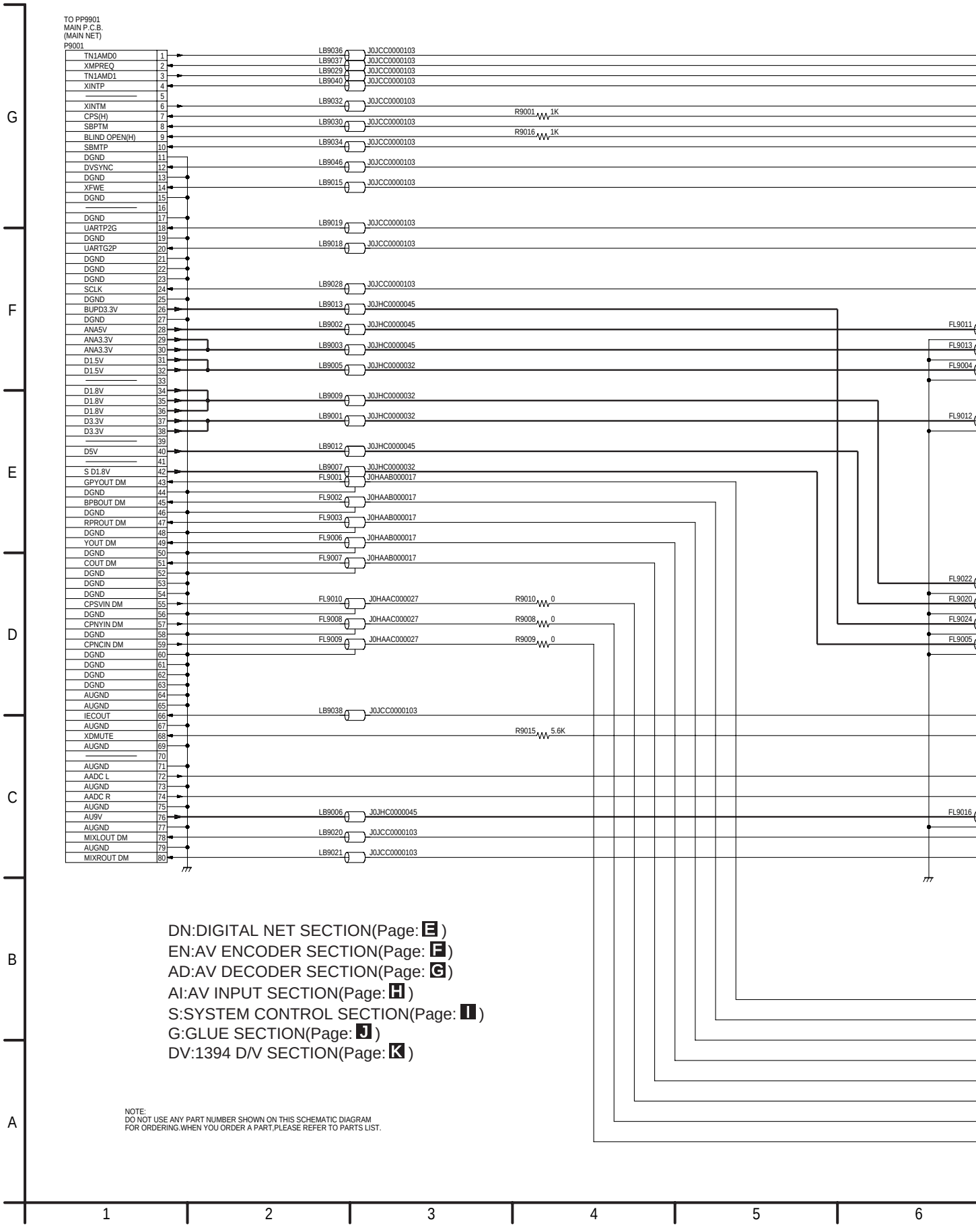


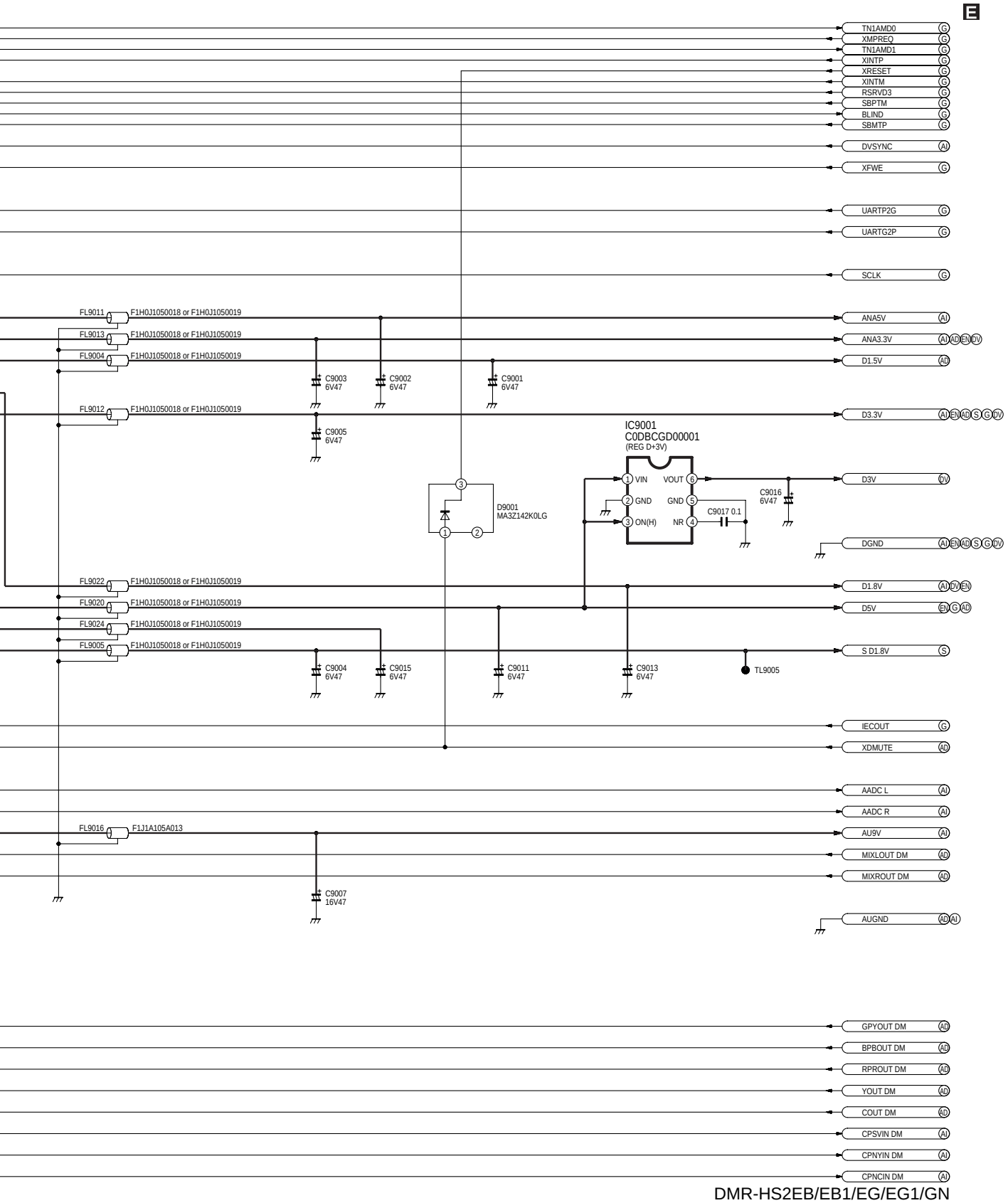
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN
Timer Section(Main P.C.B.(4/4))
Schematic Diagram(T)

18 | 19 | 20 | 21 | 22

15.8. Digital Net Section (Digital P.C.B. (1/7)) Schematic Diagram (DN)

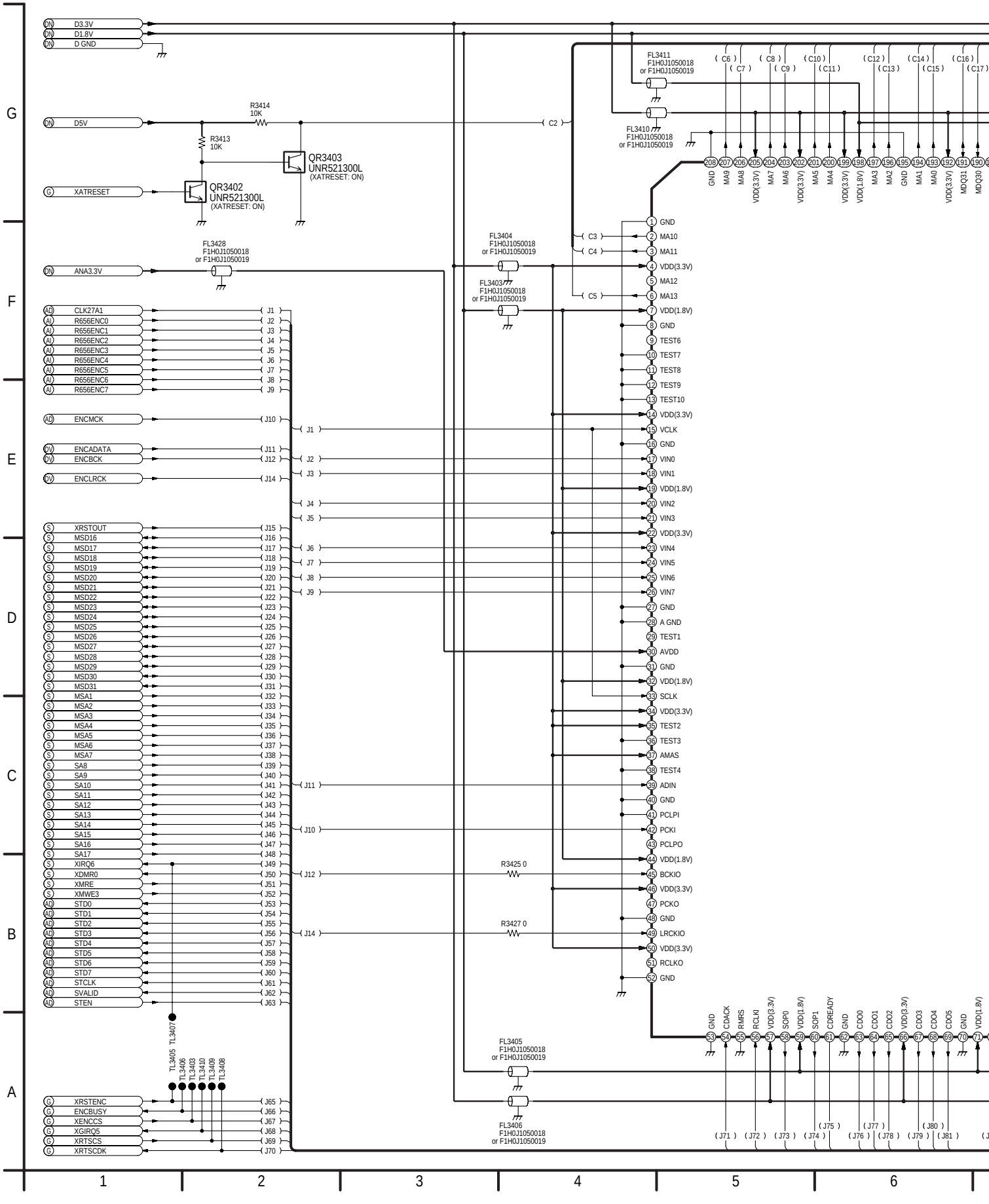


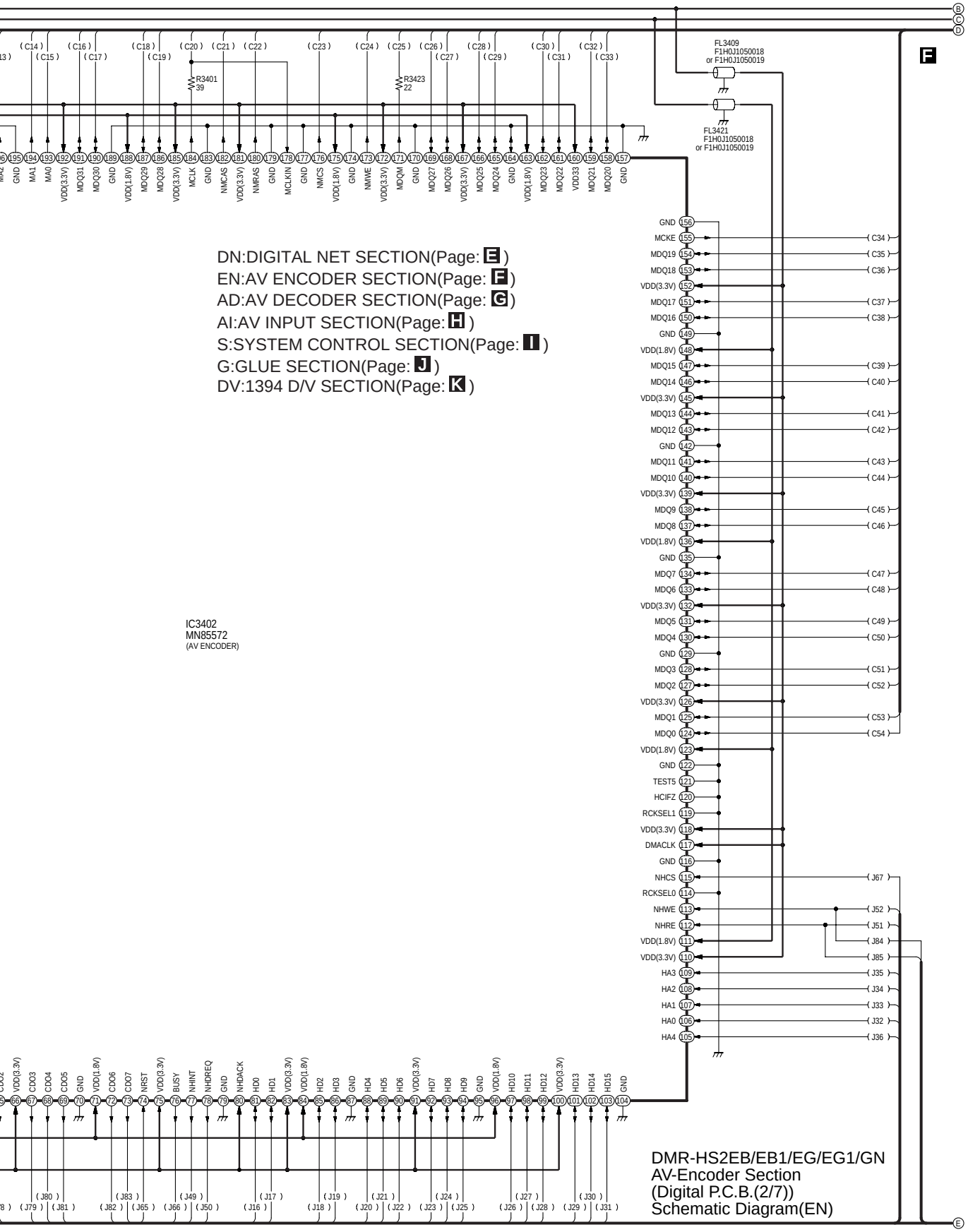


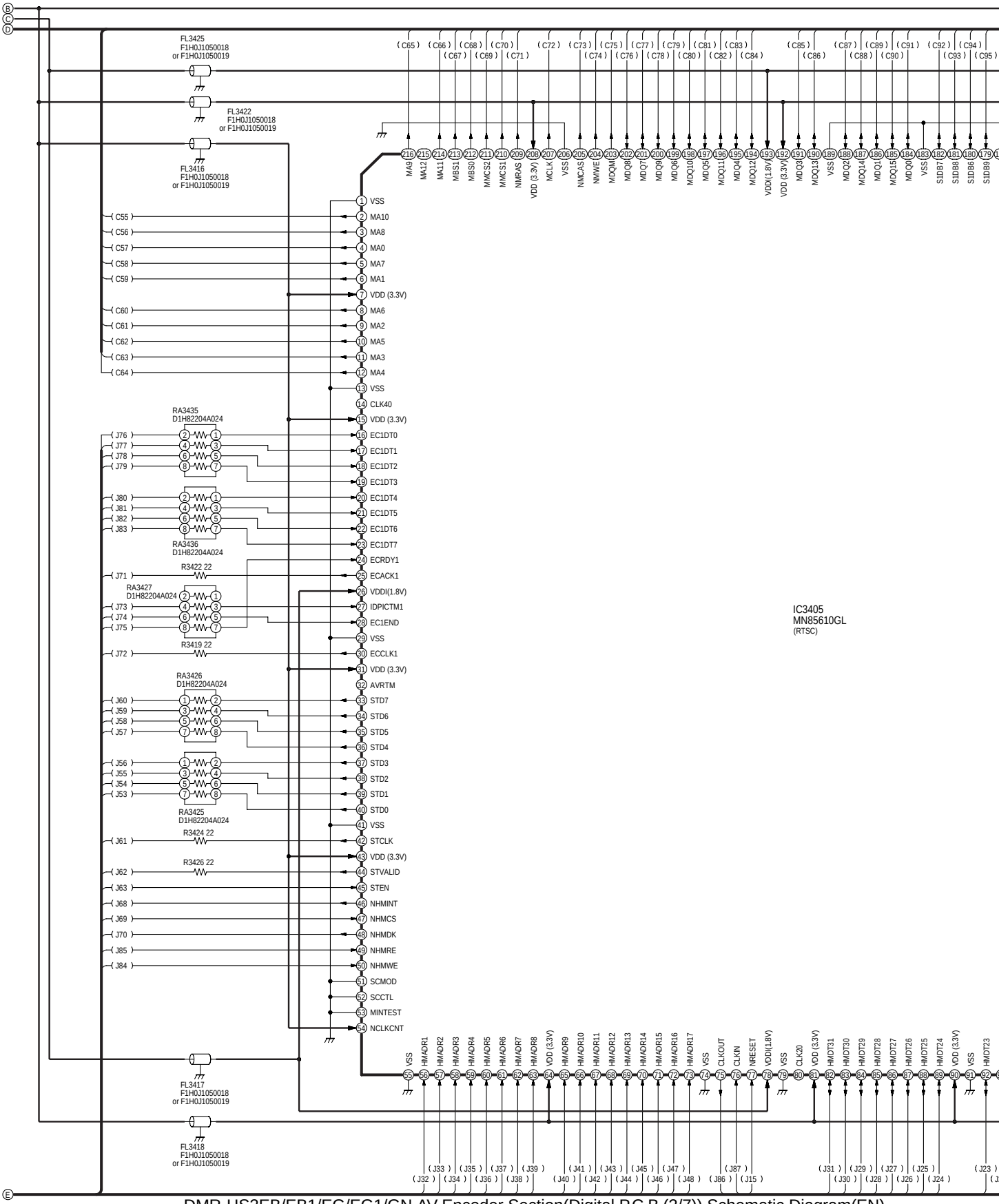
DMR-HS2EB/EB1/EG/EG1/GN
Digital Net Section (Digital P.C.B. (1/7))
Schematic Diagram(DN)

6 | 7 | 8 | 9 | 10 | 11

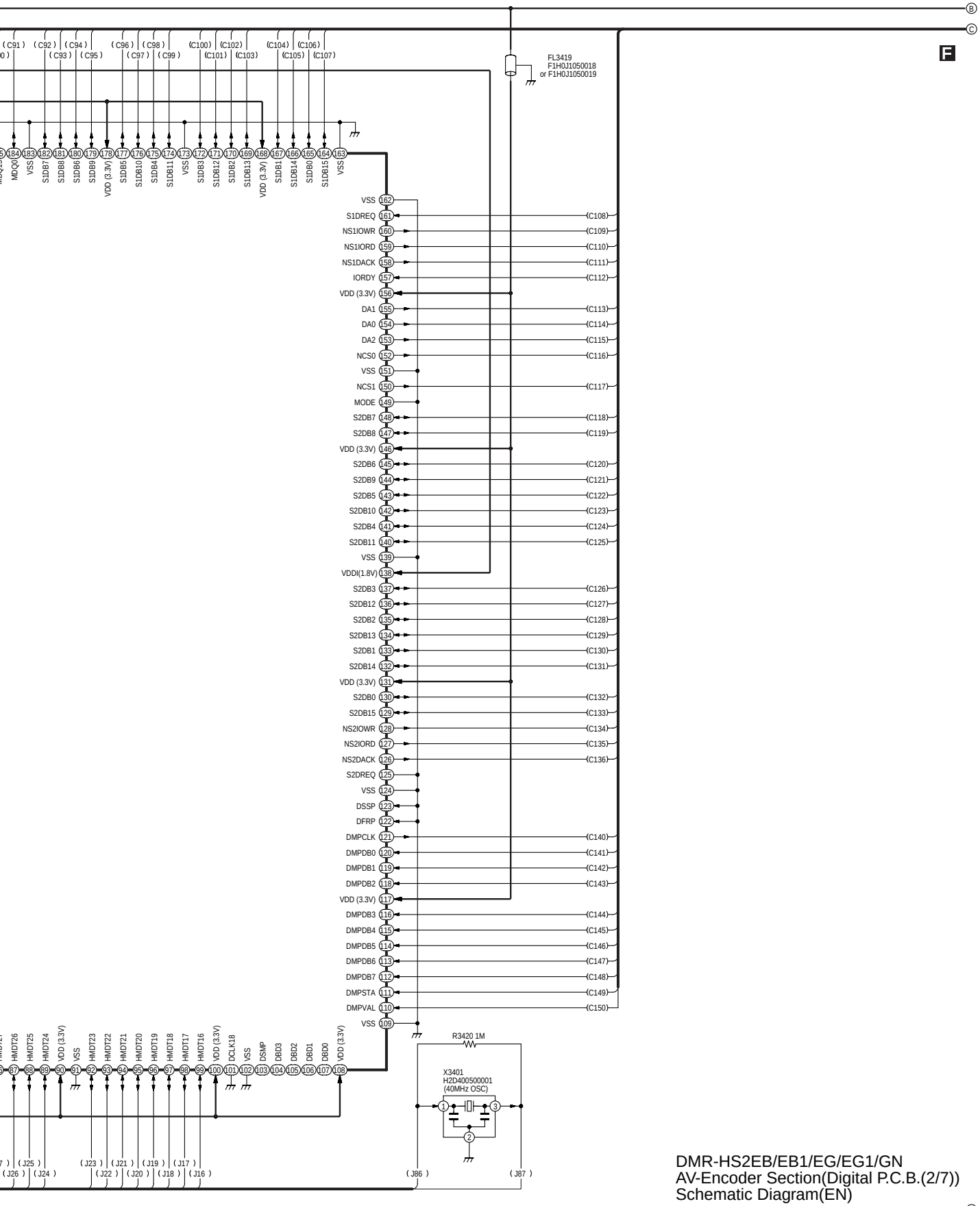
15.9. AV-Encoder Section (Digital P.C.B. (2/7)) Schematic Diagram (EN)



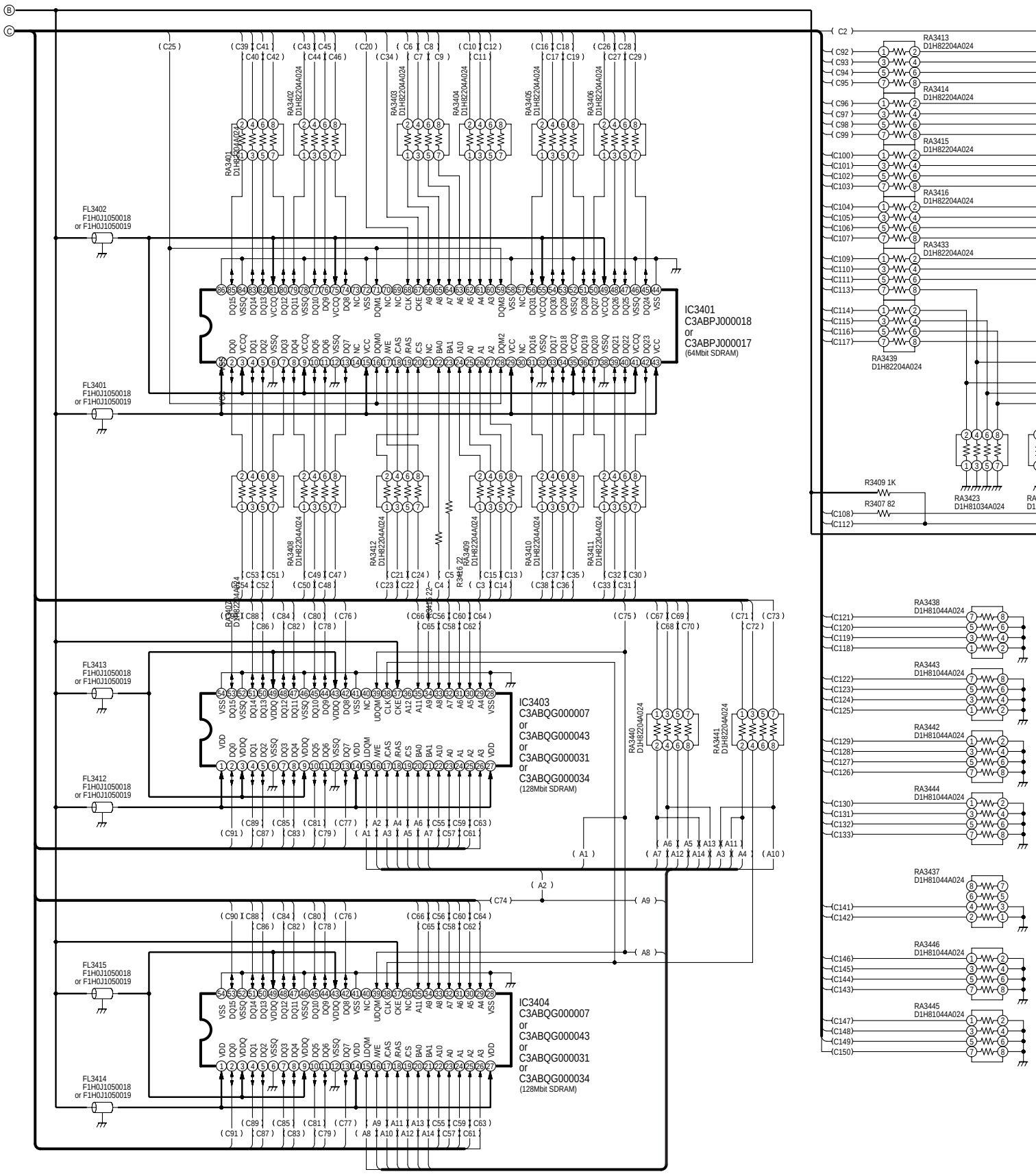

F
FL3409
F1H0J1050018
or F1H0J1050019
FL3421
F1H0J1050018
or F1H0J1050019
R3401
39
R3423
22
DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)
IC3402
MN85572
(AV ENCODER)
DMR-HS2EB/EB1/EG/EG1/GN
AV-Encoder Section
(Digital P.C.B.(2/7))
Schematic Diagram(EN)



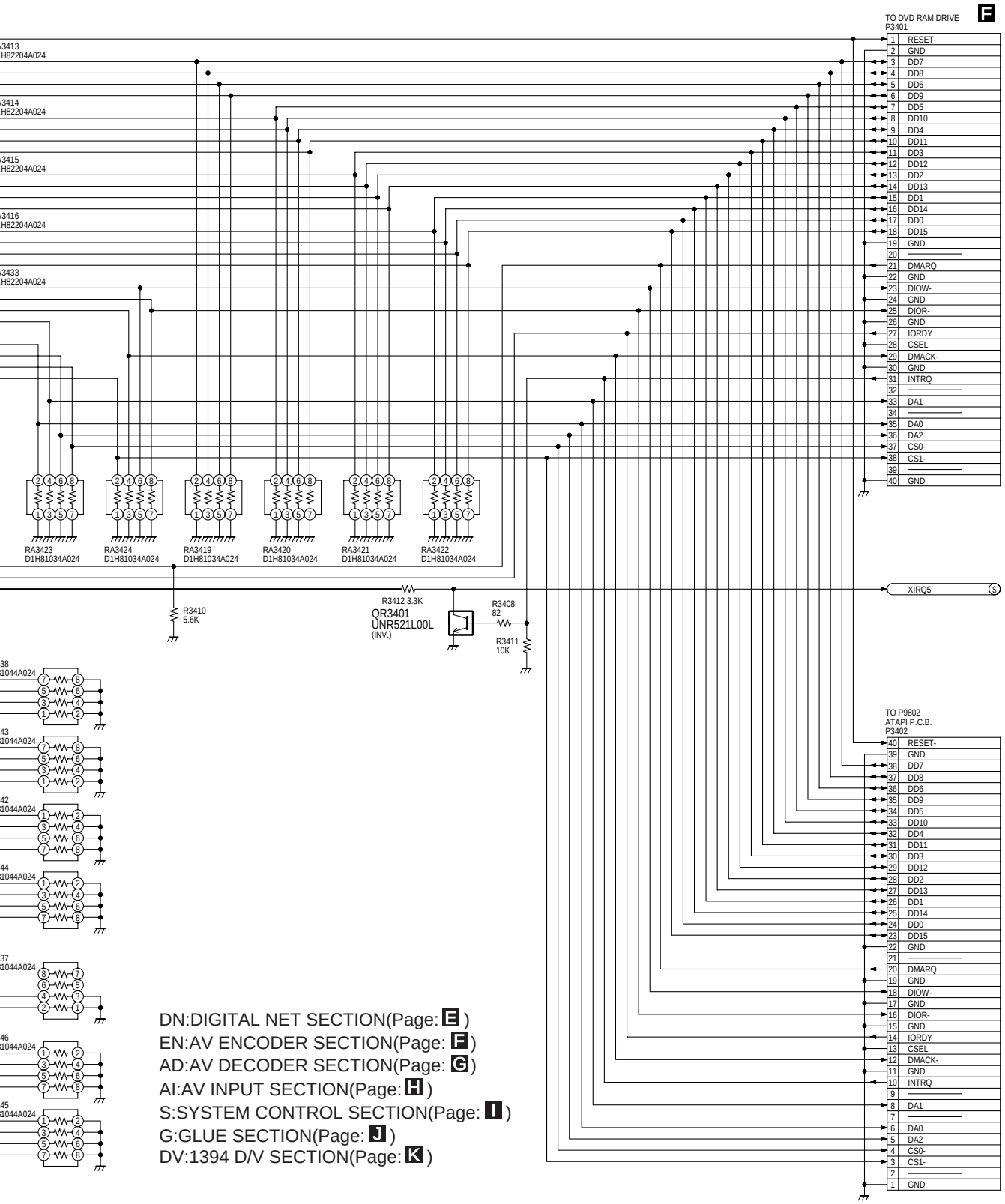
DMR-HS2EB/EB1/EG/EG1/GN AV-Encoder Section(Digital P.C.B.(2/7)) Schematic Diagram(EN)



DMR-HS2EB/EB1/EG/EG1/GN
AV-Encoder Section(Digital P.C.B.(2/7))
Schematic Diagram(EN)



DMR-HS2EB/EB1/EG/EG1/GN
AV-Encoder Section(Digital P.C.B.(2/7)) Schematic Diagram(EN)



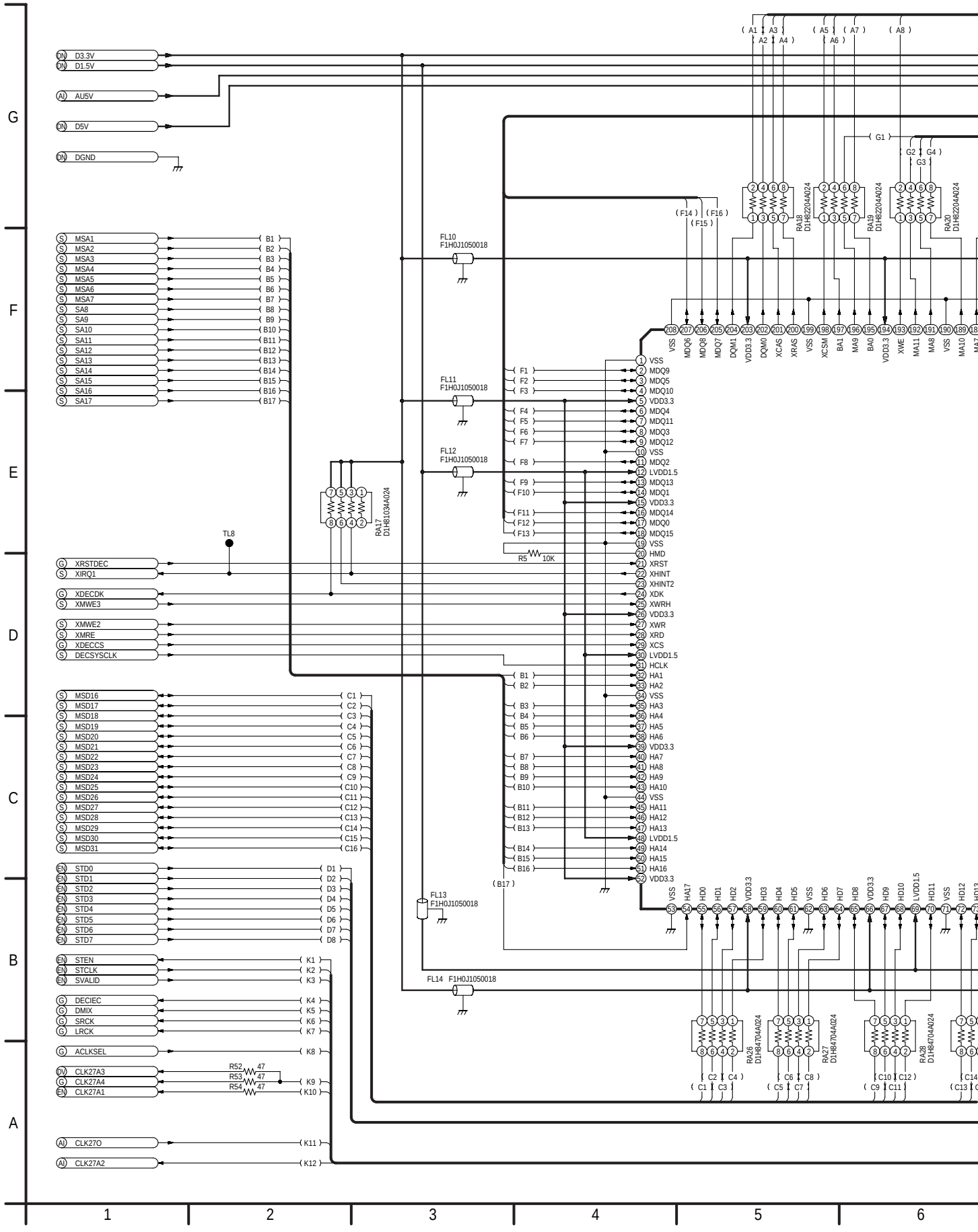
DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)

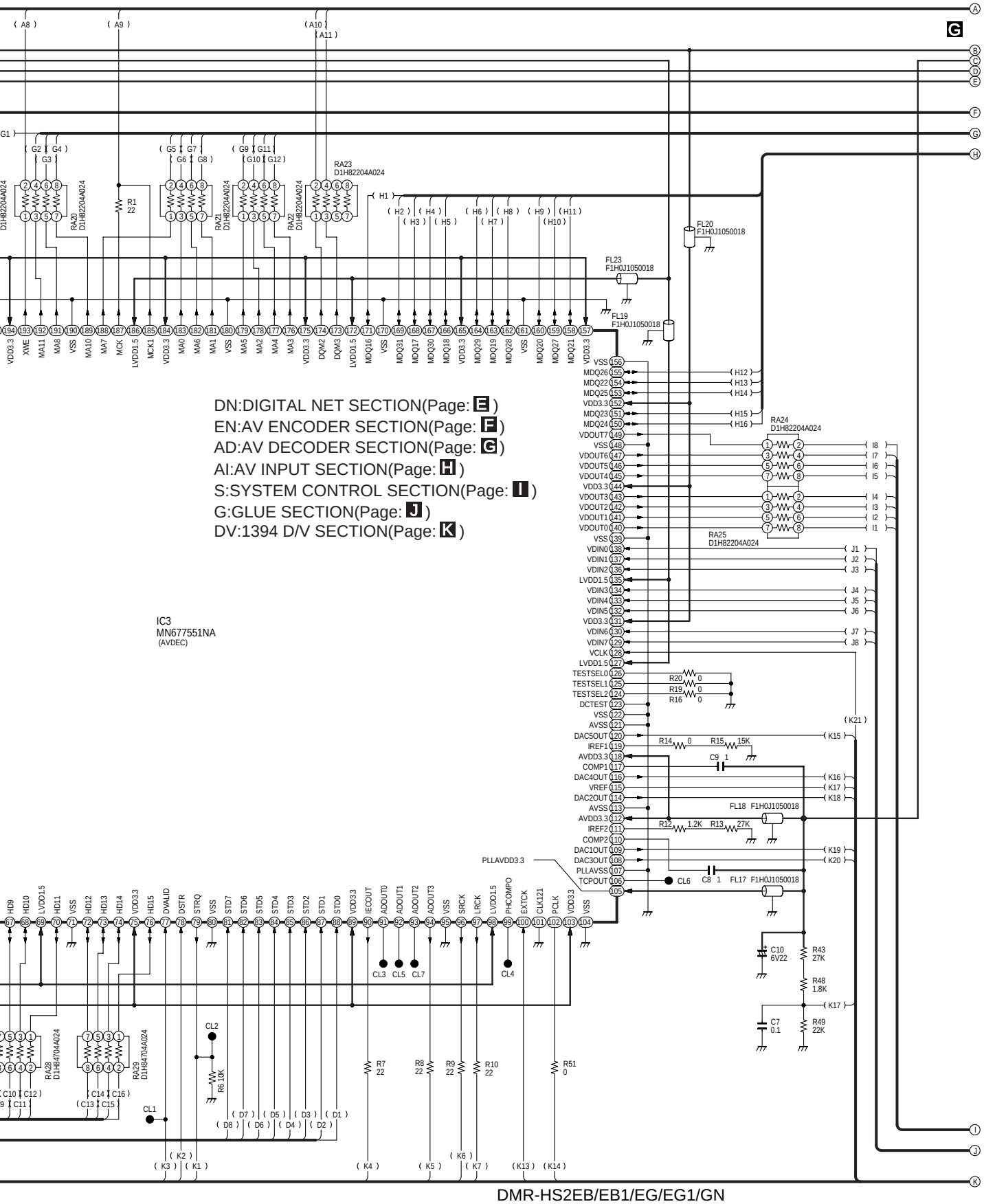
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
AV-Encoder Section(Digital P.C.B.(2/7))
Schematic Diagram(EN)

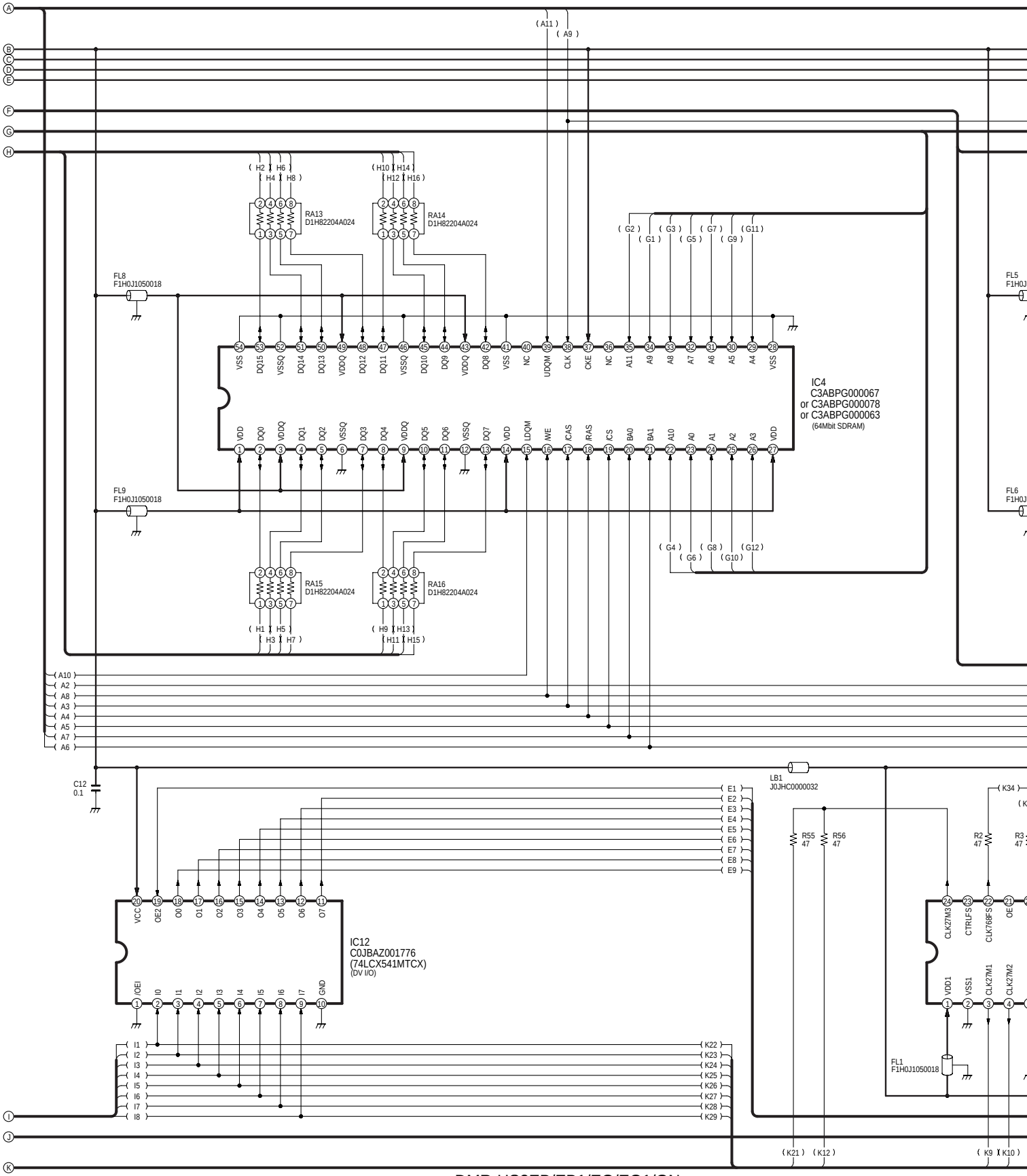
28	29	30	31	32

15.10. AV-Decoder Section (Digital P.C.B. (3/7)) Schematic Diagram (AD)

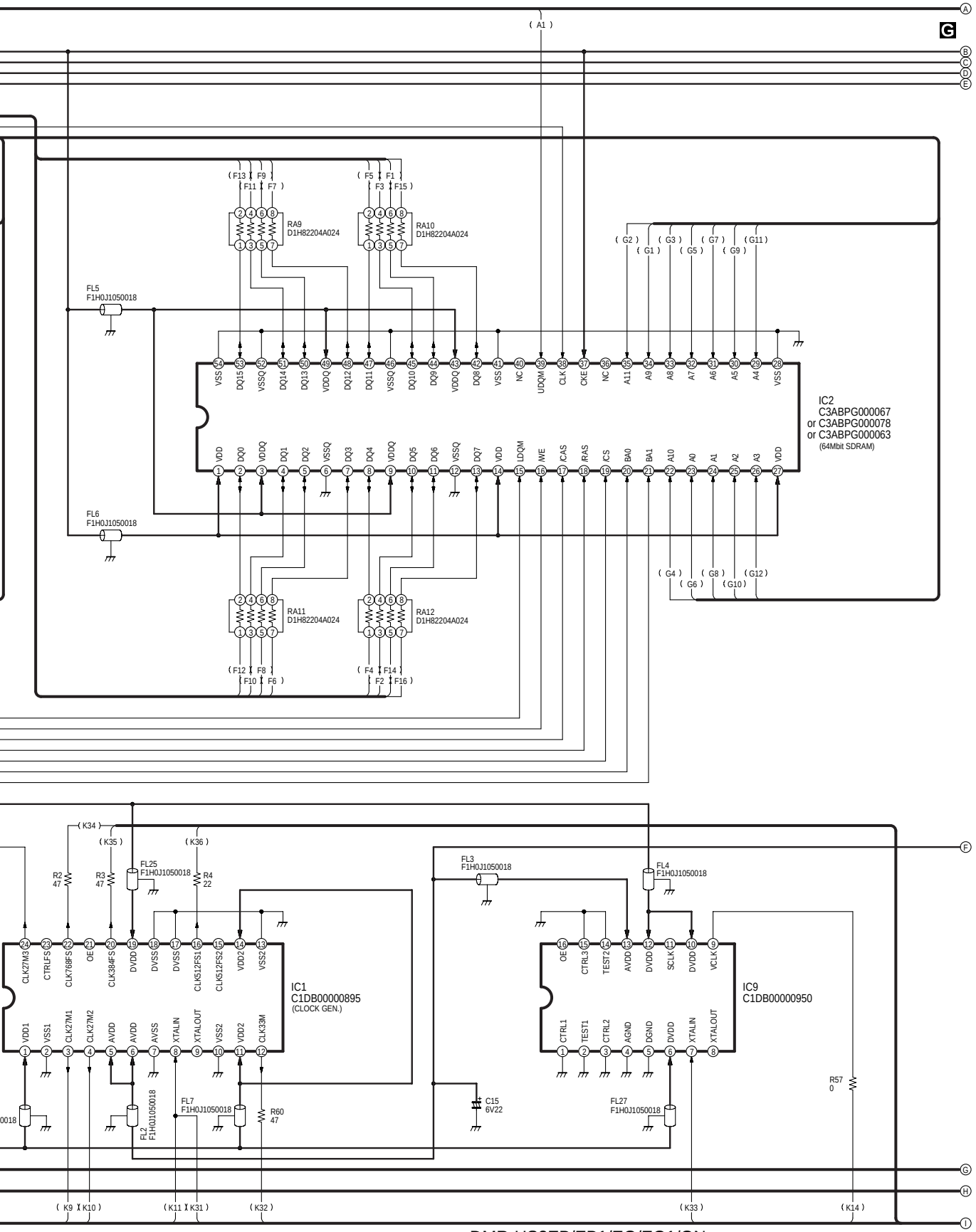




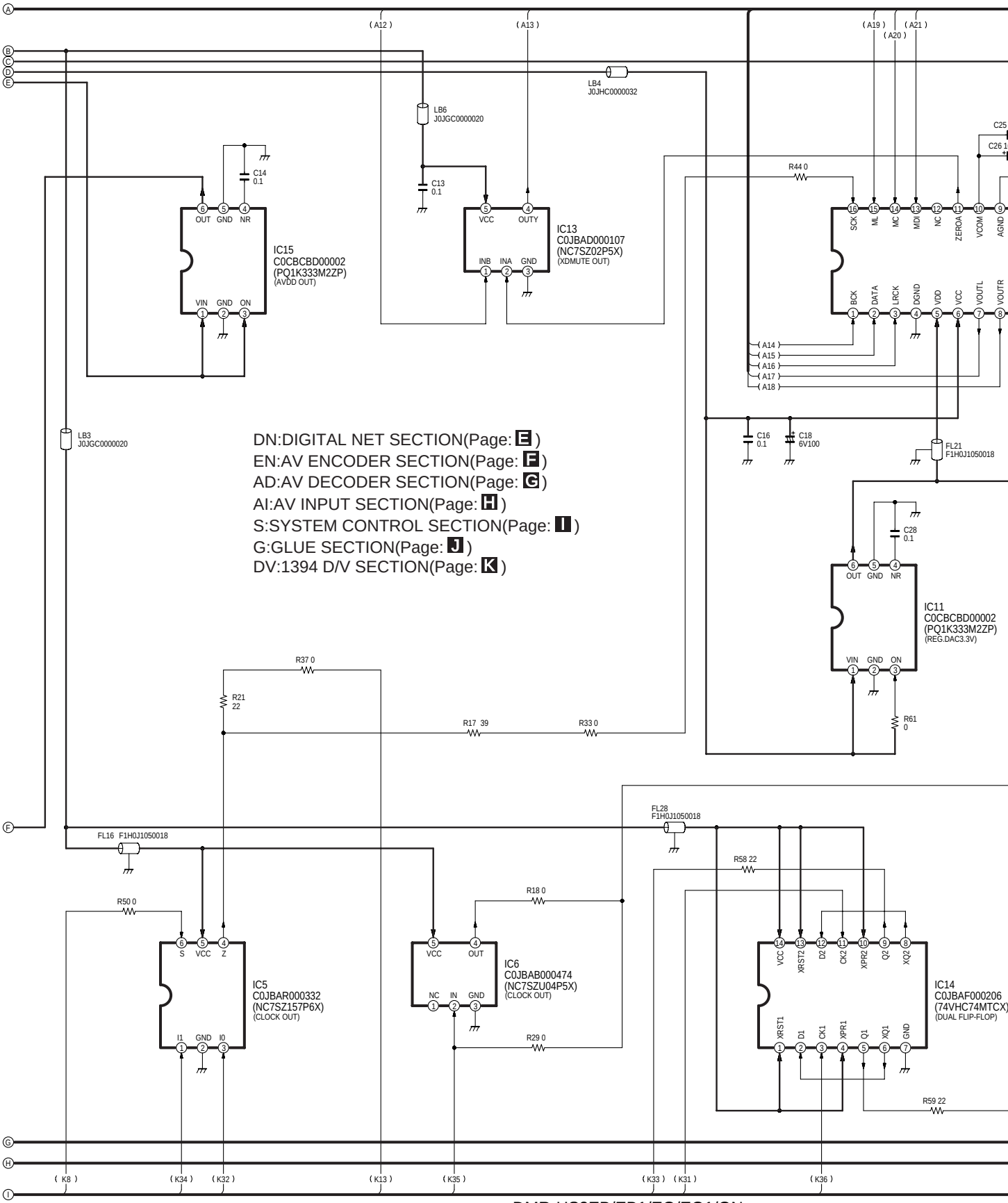
DMR-HS2EB/EB1/EG/EG1/GN
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)


RA13 D1H82204A024
RA14 D1H82204A024
RA15 D1H82204A024
RA16 D1H82204A024
FL8 F1H0J1050018
FL9 F1H0J1050018
FL5 F1H0J
FL6 F1H0J
IC4
C3ABPG000067
or C3ABPG000078
or C3ABPG000063
(64Mbit SDRAM)
VSS DQ15 VSSQ DQ14 DQ13 VDDQ DQ12 DQ11 VSSQ DQ10 DQ9 VDDQ DQ8 VSS NC UDQM CLK CKE NC A11 A9 A8 A7 A6 A5 A4 VSS
VDD DQ0 VDDQ DQ1 DQ2 VSSQ DQ3 DQ4 VDDQ DQ5 DQ6 VSSQ DQ7 VDD LDQM WE CAS RAS CS BA0 BA1 A10 A0 A1 A2 A3 VDD
C12 0.1
LB1 J0JHC0000032
R55 47
R56 47
R2 47
R3 47
IC12
C0JBAZ001776
(74LCX541MTCX)
(DV I/O)
VCC OE2 O0 O1 O2 O3 O4 O5 O6 O7
/OEI I0 I1 I2 I3 I4 I5 I6 I7 GND
CLK27M3 CTRLFS CLK768FS OE1
VDD1 VSS1 CLK27M1 CLK27M2
FL1 F1H0J1050018
A10 A2 A8 A3 A4 A5 A7 A6
E1 E2 E3 E4 E5 E6 E7 E8 E9
I1 I2 I3 I4 I5 I6 I7 I8
K22 K23 K24 K25 K26 K27 K28 K29
K21 K12
K9 K10
K34

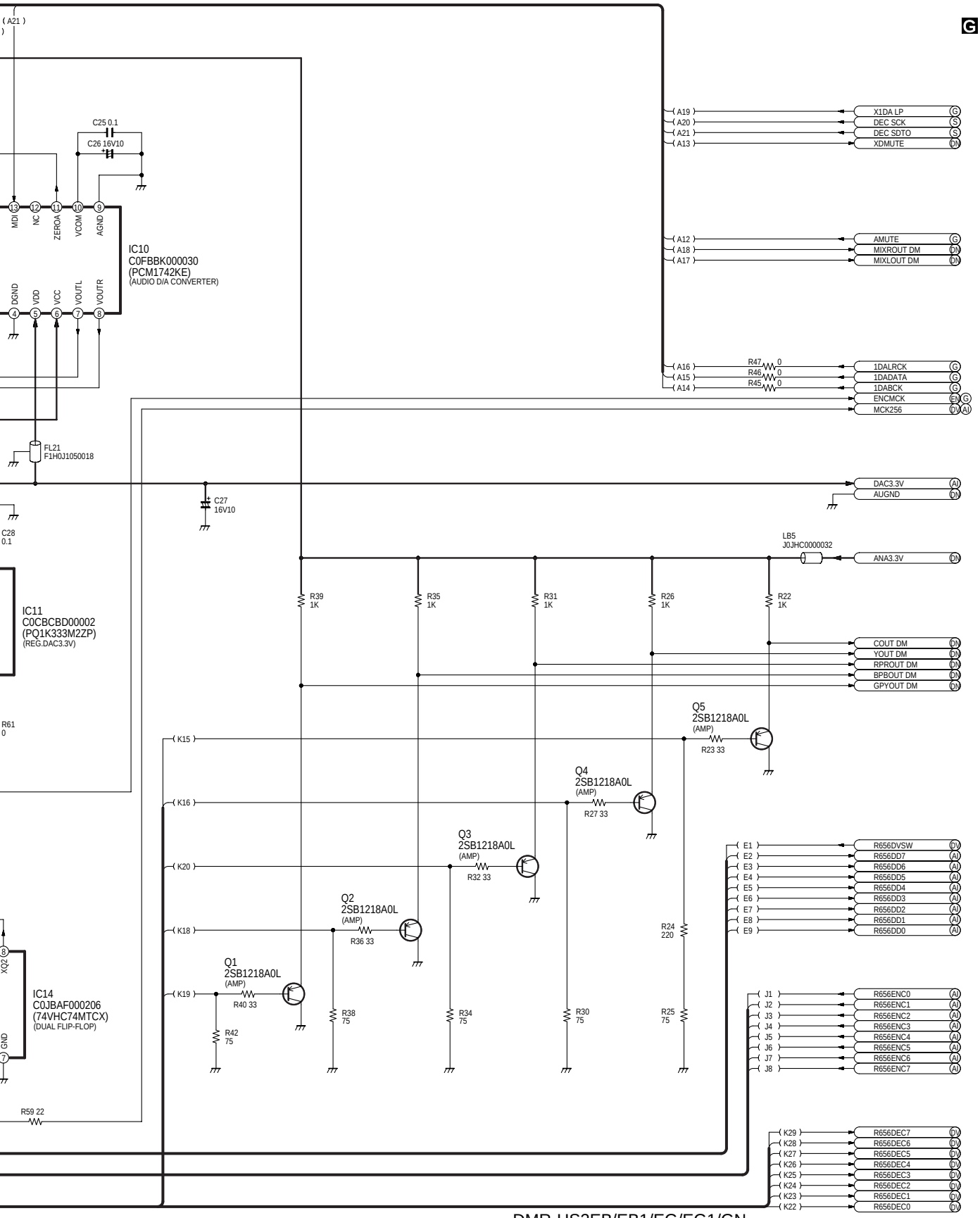
DMR-HS2EB/EB1/EG/EG1/GN
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)



DMR-HS2EB/EB1/EG/EG1/GN
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)



DMR-HS2EB/EB1/EG/EG1/GN
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)



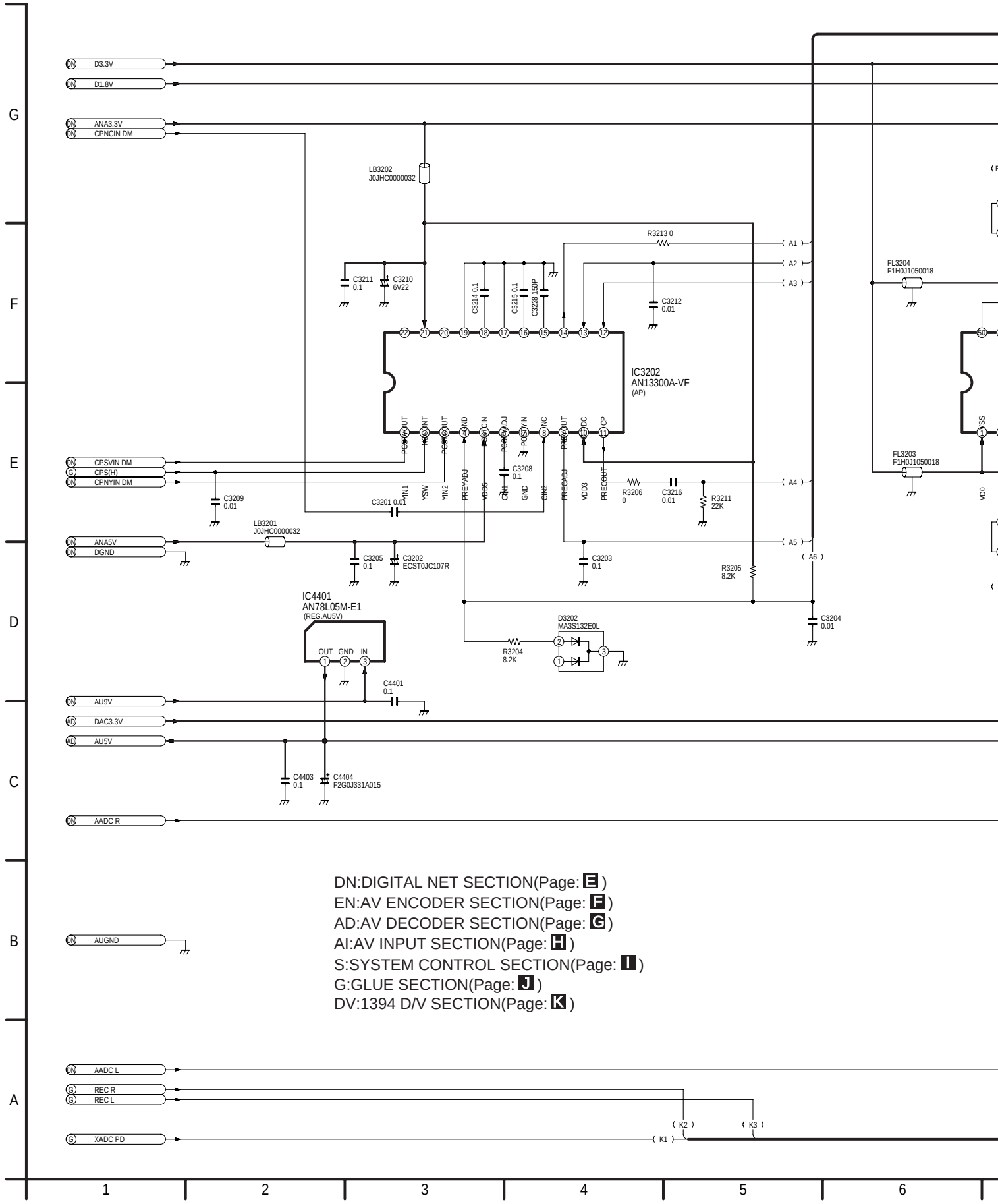
iagram(AD)

REF NO. 50000 SERIES

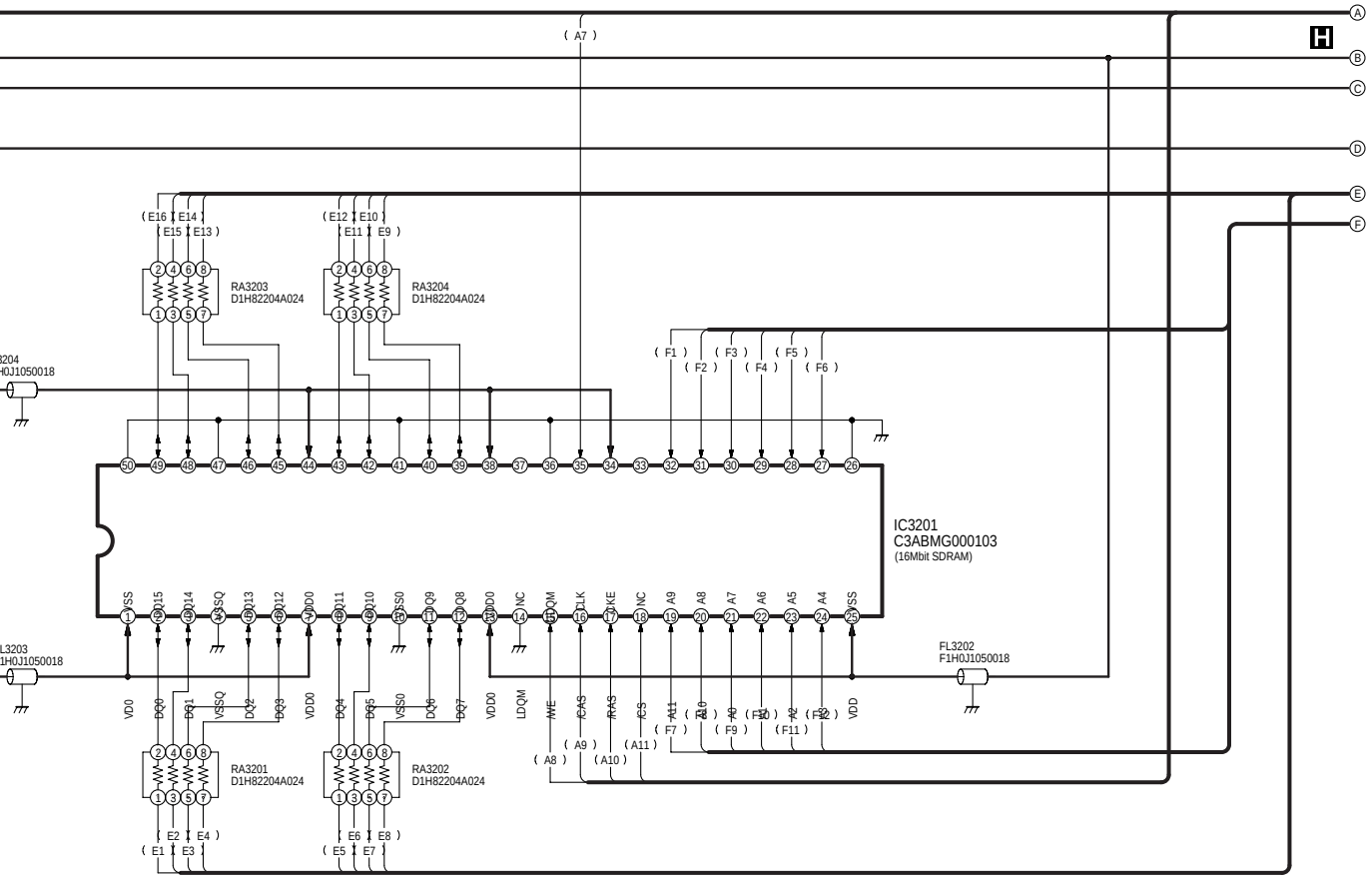
DMR-HS2EB/EB1/EG/EG1/GN
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)

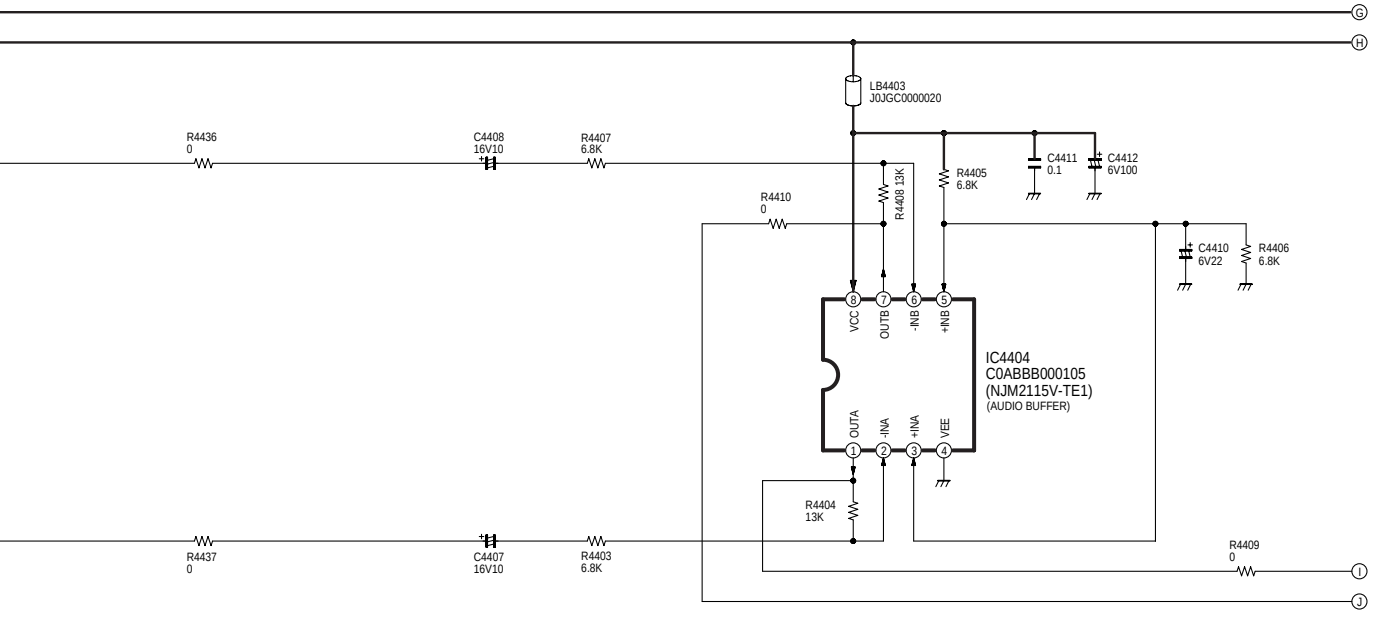
29 | 30 | 31 | 32 | 33

15.11. AV-Input Section (Digital P.C.B. (4/7)) Schematic Diagram (AI)



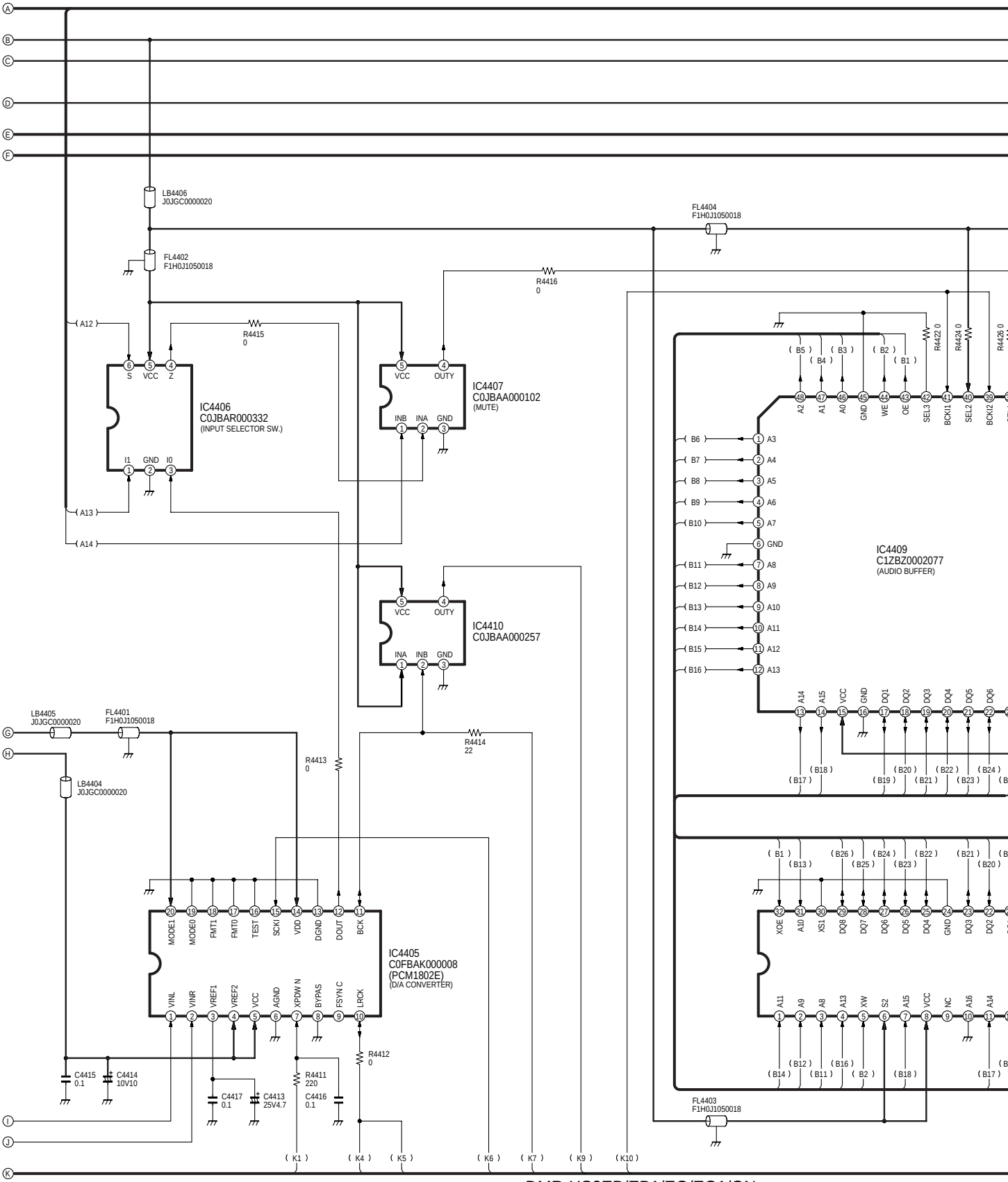
DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)

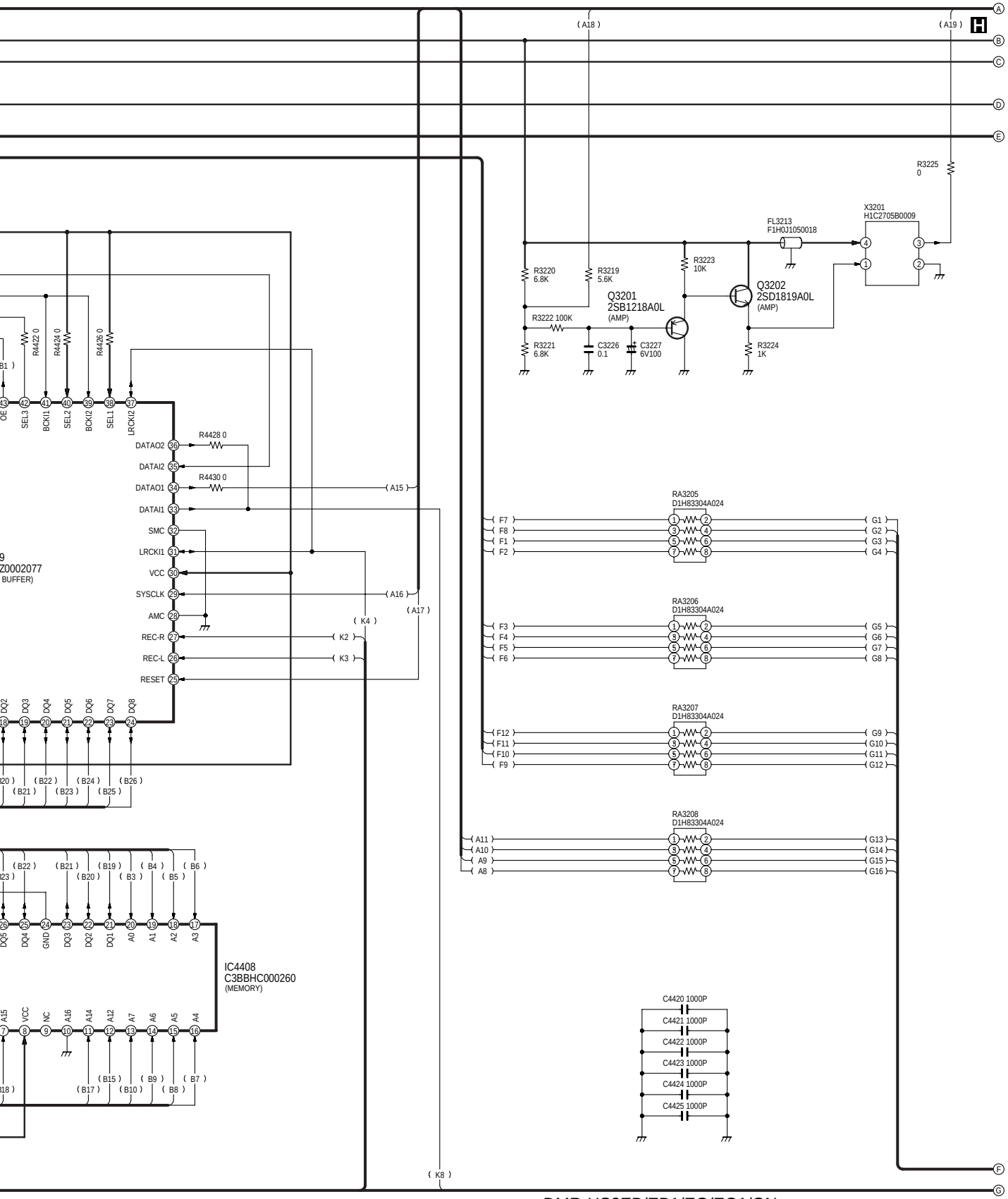




DMR-HS2EB/EB1/EG/EG1/GN
AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)

6 | 7 | 8 | 9 | 10 | 11

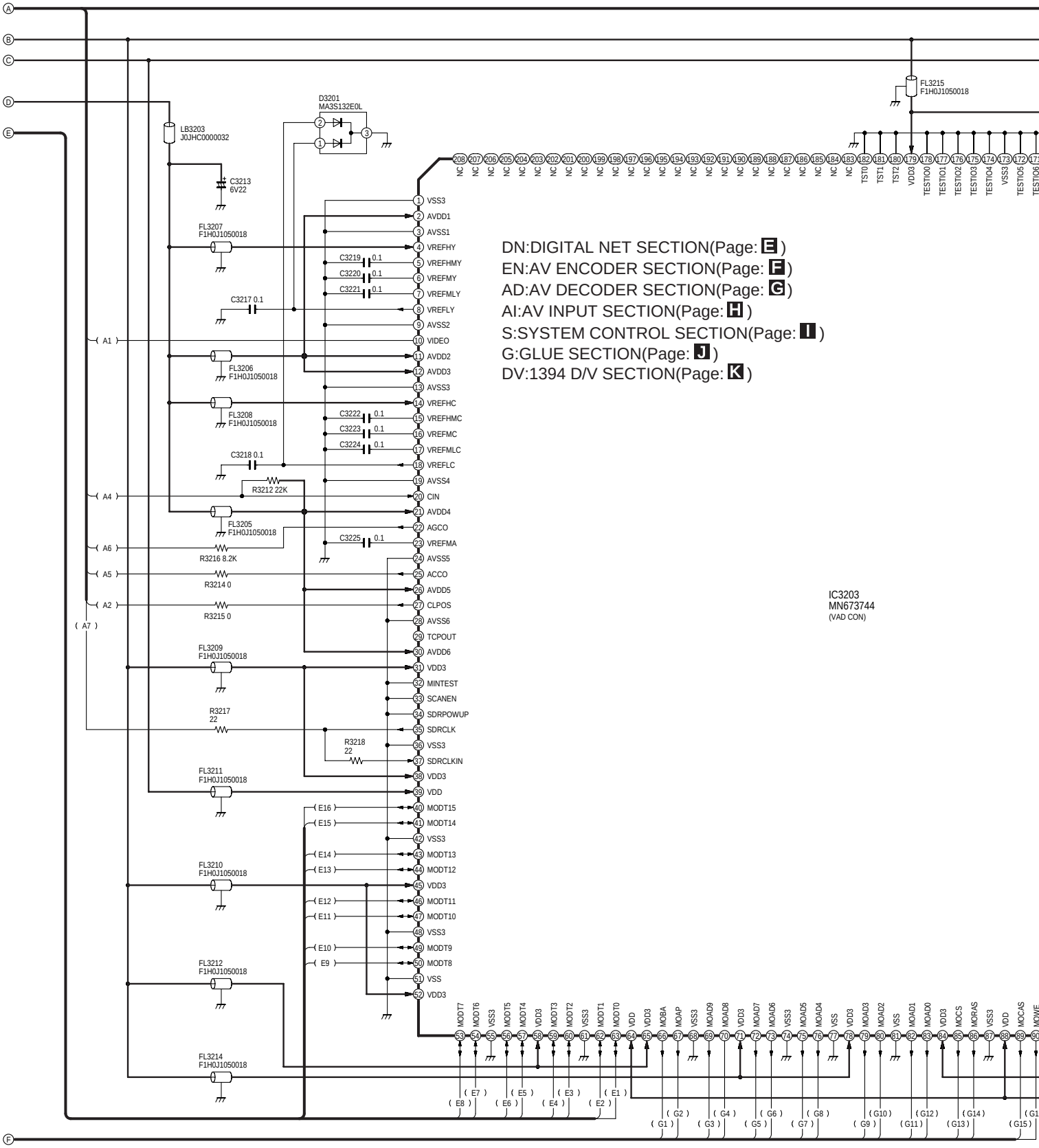

LB4406
J0JGC0000020
FL4402
F1H0J1050018
FL4404
F1H0J1050018
R4416
0
R4415
0
IC4406
C0JBAR000332
(INPUT SELECTOR SW.)
IC4407
C0JBAA000102
(MUTE)
IC4410
C0JBAA000257
IC4409
C1ZBZ0002077
(AUDIO BUFFER)
LB4405
J0JGC0000020
FL4401
F1H0J1050018
LB4404
J0JGC0000020
R4413
0
R4414
22
IC4405
C0FBAK000008
(PCM1802E)
(D/A CONVERTER)
R4412
0
R4411
220
C4415
0.1
C4414
10V10
C4417
0.1
C4413
25V4.7
C4416
0.1
FL4403
F1H0J1050018
DMR-HS2EB/EB1/EG/EG1/GN
AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)



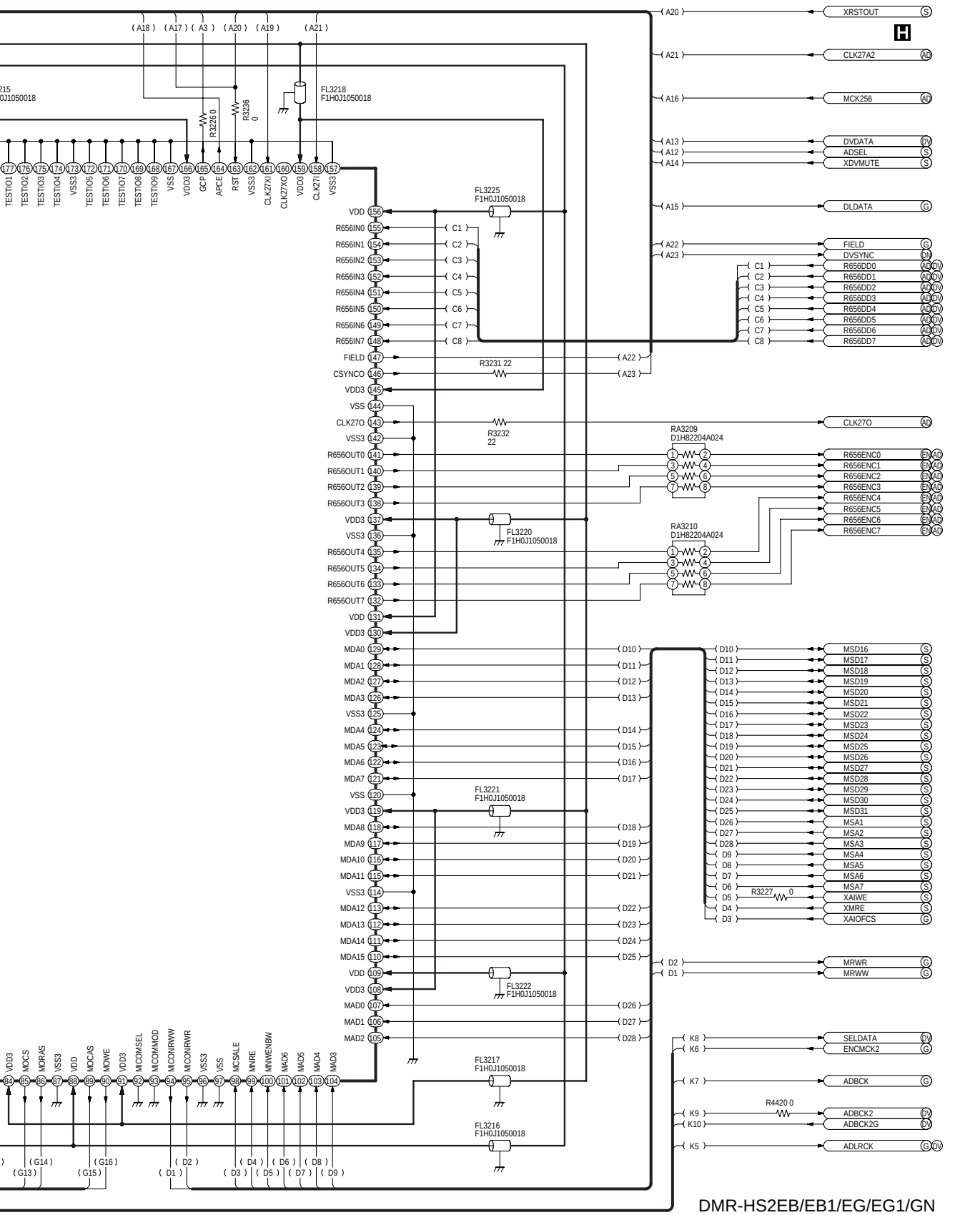
DMR-HS2EB/EB1/EG/EG1/GN
AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)

gram(AI)

17 | 18 | 19 | 20 | 21 | 22



DMR-HS2EB/EB1/EG/EG1/GN
AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)


A18 A17 A3 A20 A19 A21
FL3218 F1H0J1050018
R3226 0
R3236 0
TESTIO1 TESTIO2 TESTIO3 TESTIO4 VSS3 TESTIO5 TESTIO6 TESTIO7 TESTIO8 TESTIO9 VSS VDD3 GCP APCE RST VSS3 CLK27XI CLK27XO VDD3 CLK27I VSS3
FL3225 F1H0J1050018
VDD R656IN0 R656IN1 R656IN2 R656IN3 R656IN4 R656IN5 R656IN6 R656IN7 FIELD CSYNCO VDD3 VSS CLK27O VSS3 R656OUT0 R656OUT1 R656OUT2 R656OUT3 VDD3 VSS3 R656OUT4 R656OUT5 R656OUT6 R656OUT7 VDD VDD3
R3231 22
R3232 22
FL3220 F1H0J1050018
FL3221 F1H0J1050018
FL3222 F1H0J1050018
FL3217 F1H0J1050018
FL3216 F1H0J1050018
MDA0 MDA1 MDA2 MDA3 VSS3 MDA4 MDA5 MDA6 MDA7 VSS VDD3 MDA8 MDA9 MDA10 MDA11 VSS3 MDA12 MDA13 MDA14 MDA15 VDD VDD3 MAD0 MAD1 MAD2
VDD3 MOCS MCRAS VSS3 VDD MOCAS MOWE VDD3 MICOMSEL MICOMMOD MICONRWW MICONRWR VSS3 VSS MCSALE MNRE MNWENBW MAD6 MAD5 MAD4 MAD3
A20 A21 A16 A13 A12 A14 A15 A22 A23
XRSTOUT CLK27A2 MCK256 DVDATA ADSEL XDVMUTE DLDATA FIELD DVSYNC R656DD0 R656DD1 R656DD2 R656DD3 R656DD4 R656DD5 R656DD6 R656DD7
CLK27O
RA3209 D1H82204A024
RA3210 D1H82204A024
R656ENC0 R656ENC1 R656ENC2 R656ENC3 R656ENC4 R656ENC5 R656ENC6 R656ENC7
D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25 D26 D27 D28
MSD16 MSD17 MSD18 MSD19 MSD20 MSD21 MSD22 MSD23 MSD24 MSD25 MSD26 MSD27 MSD28 MSD29 MSD30 MSD31 MSA1 MSA2 MSA3 MSA4 MSA5 MSA6 MSA7
R3227 0
XAIWE XMRE XAIOFCS
D2 D1
MRWR MRWW
K8 K6 K7 K9 K10 K5
SELDATA ENCMCK2 ADBCK
R4420 0
ADBCK2 ADBCK2G ADLRCK
G13 G14 G15 G16 D1 D2 D3 D4 D5 D6 D7 D8 D9

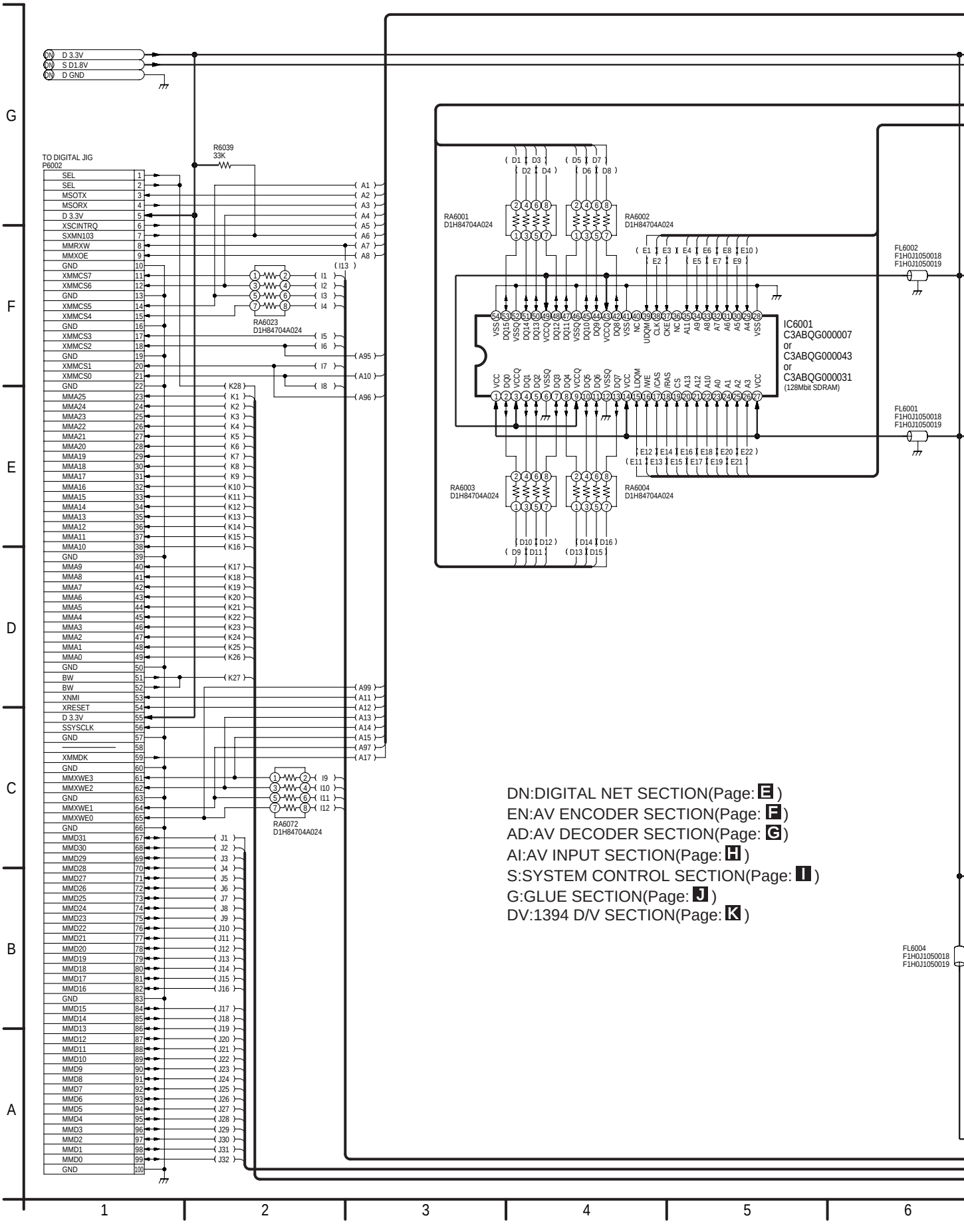
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

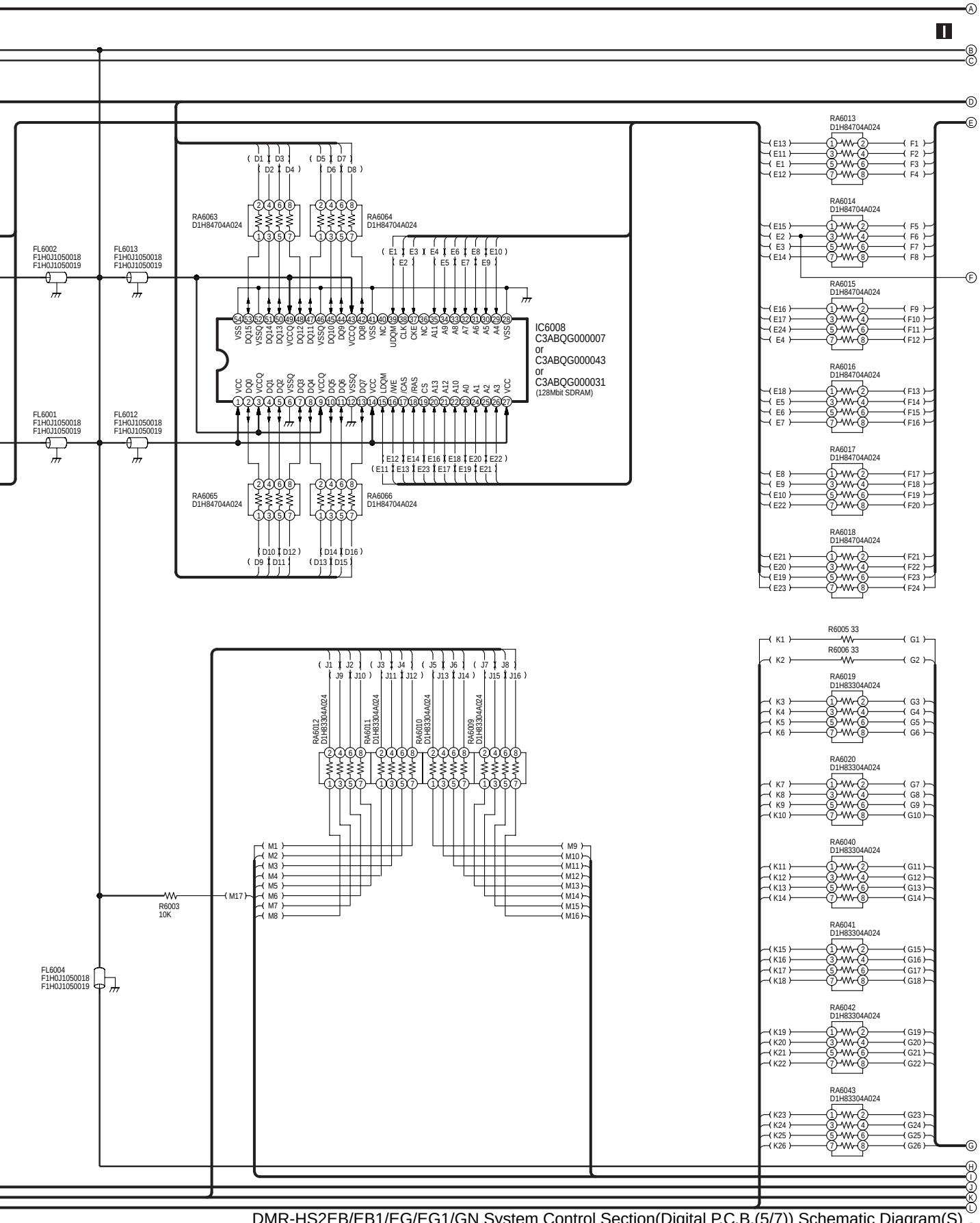
DMR-HS2EB/EB1/EG/EG1/GN
AV-Input Section(Digital P.C.B.(4/7))
Schematic Diagram(AI)

am(AI)

28 29 30 31 32

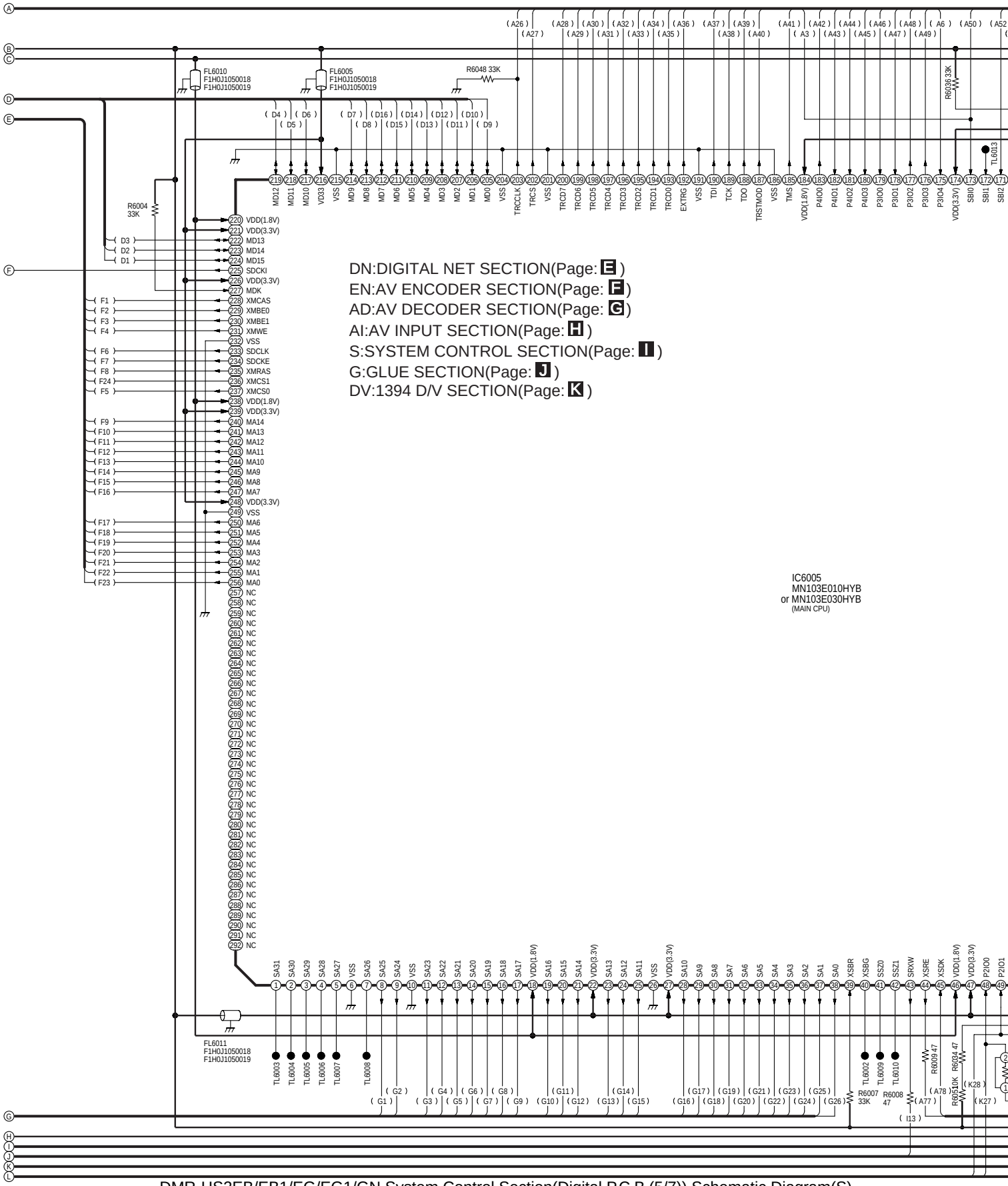
15.12. System Control Section (Digital P.C.B. (5/7)) Schematic Diagram (S)





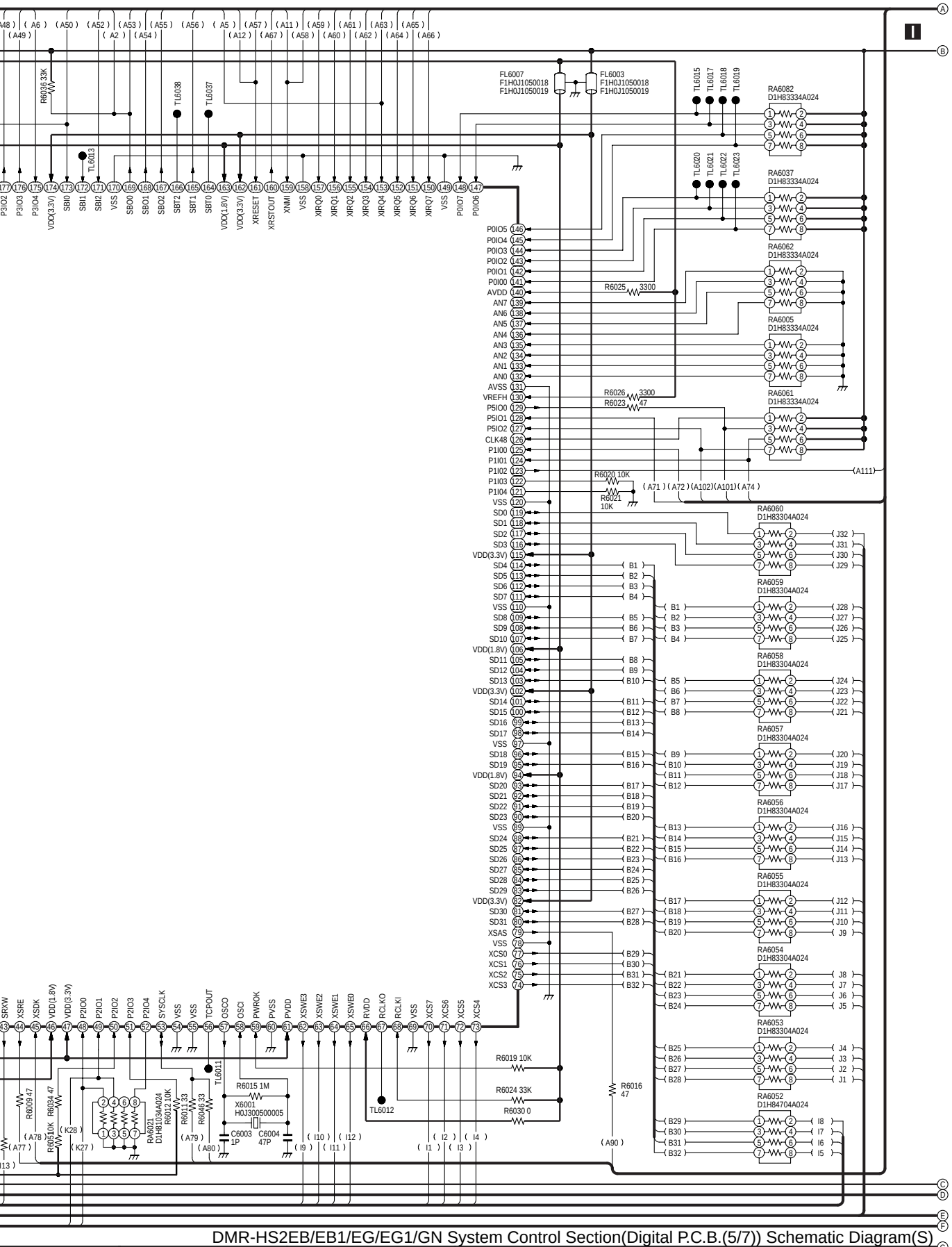
DMR-HS2EB/EB1/EG/EG1/GN System Control Section(Digital P.C.B.(5/7)) Schematic Diagram(S)

6 | 7 | 8 | 9 | 10 | 11



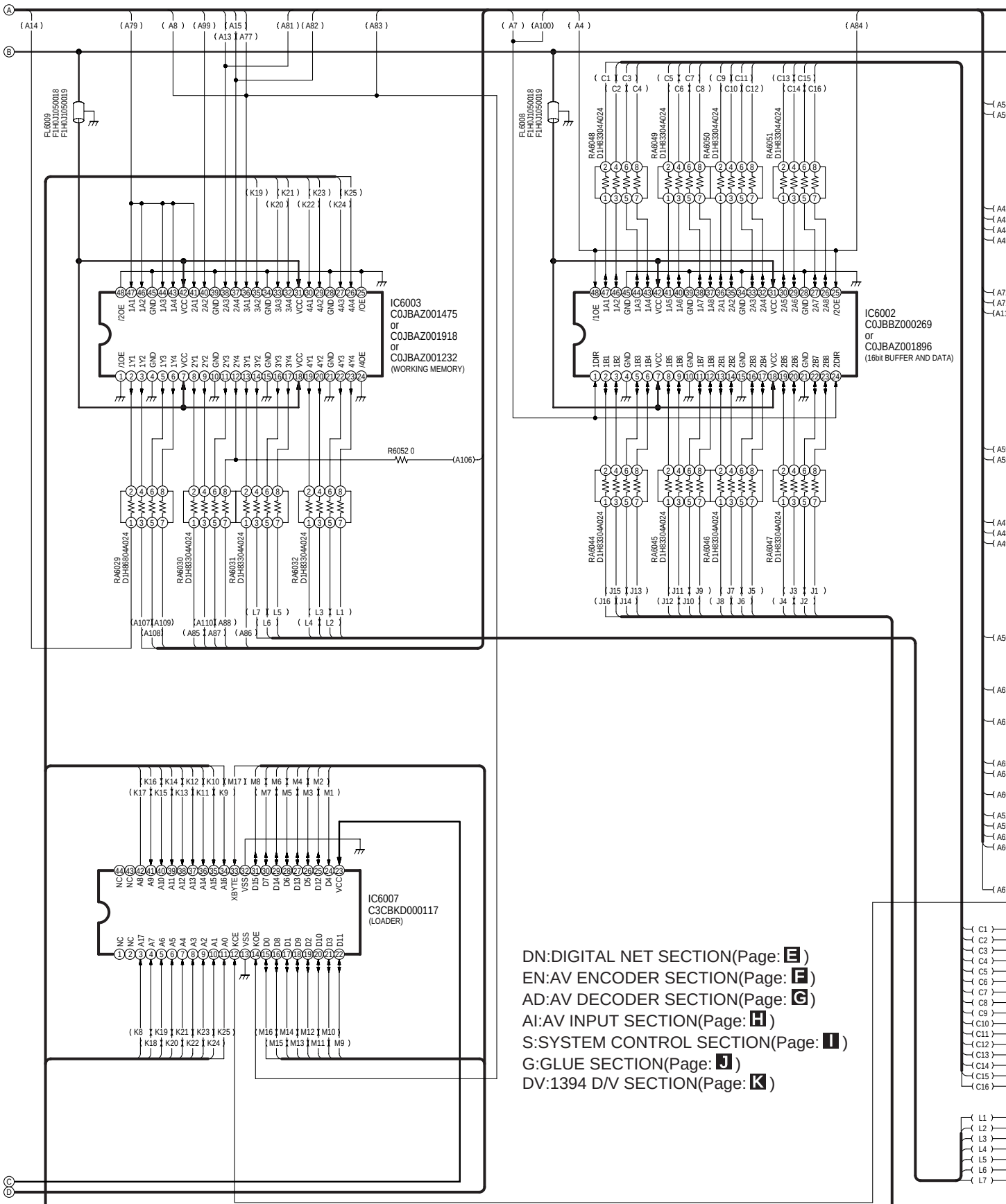
DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)

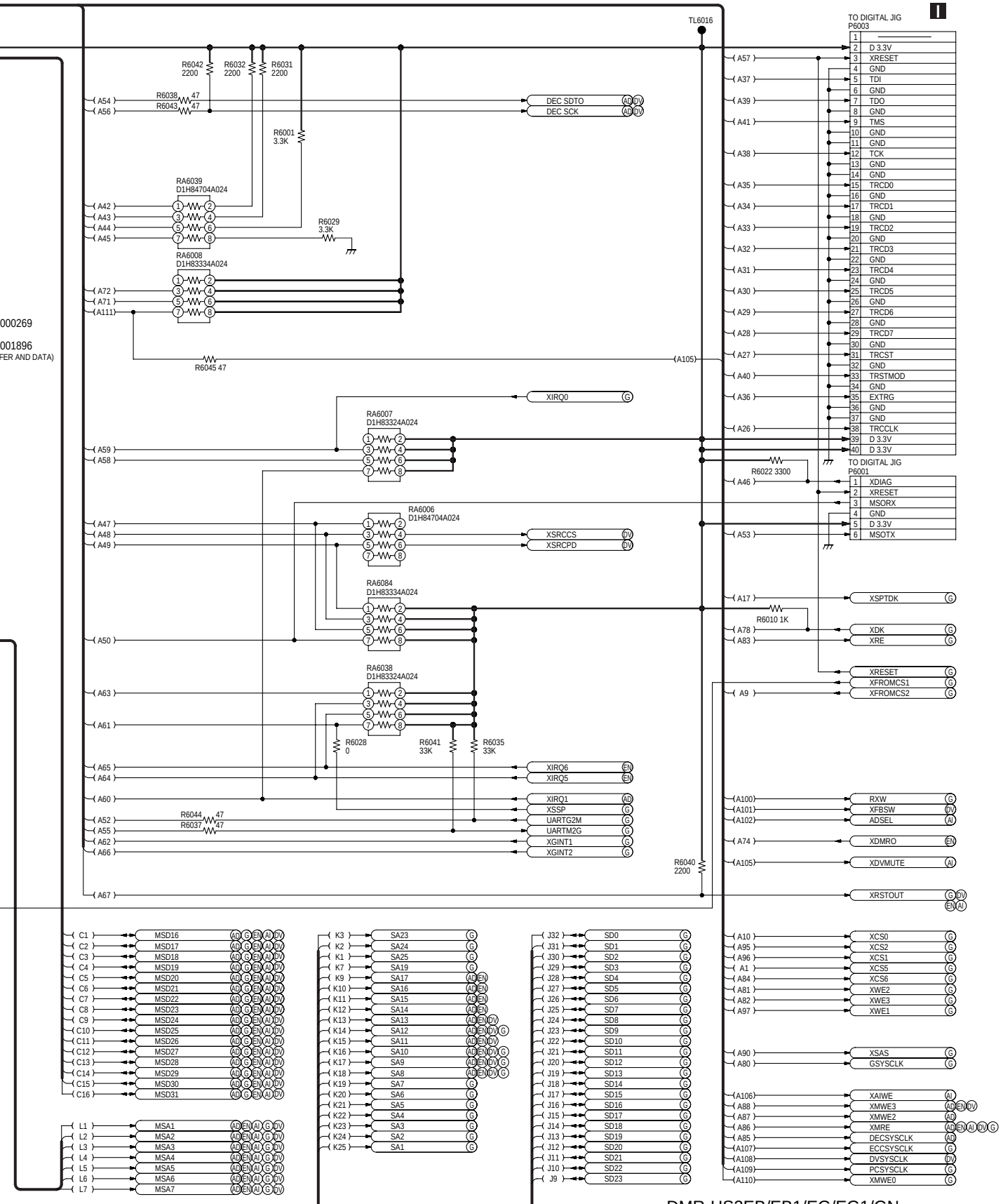
DMR-HS2EB/EB1/EG/EG1/GN System Control Section(Digital P.C.B.(5/7)) Schematic Diagram(S)



DMR-HS2EB/EB1/EG/EG1/GN System Control Section(Digital P.C.B.(5/7)) Schematic Diagram(S)

17 | 18 | 19 | 20 | 21 | 22


IC6003
C0JBAZ001475
or
C0JBAZ001918
or
C0JBAZ001232
(WORKING MEMORY)
IC6002
C0JBBZ000269
or
C0JBAZ001896
(16bit BUFFER AND DATA)
IC6007
C3CBKD000117
(LOADER)
R6052 0
DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)



000269

001896
FER AND DATA)

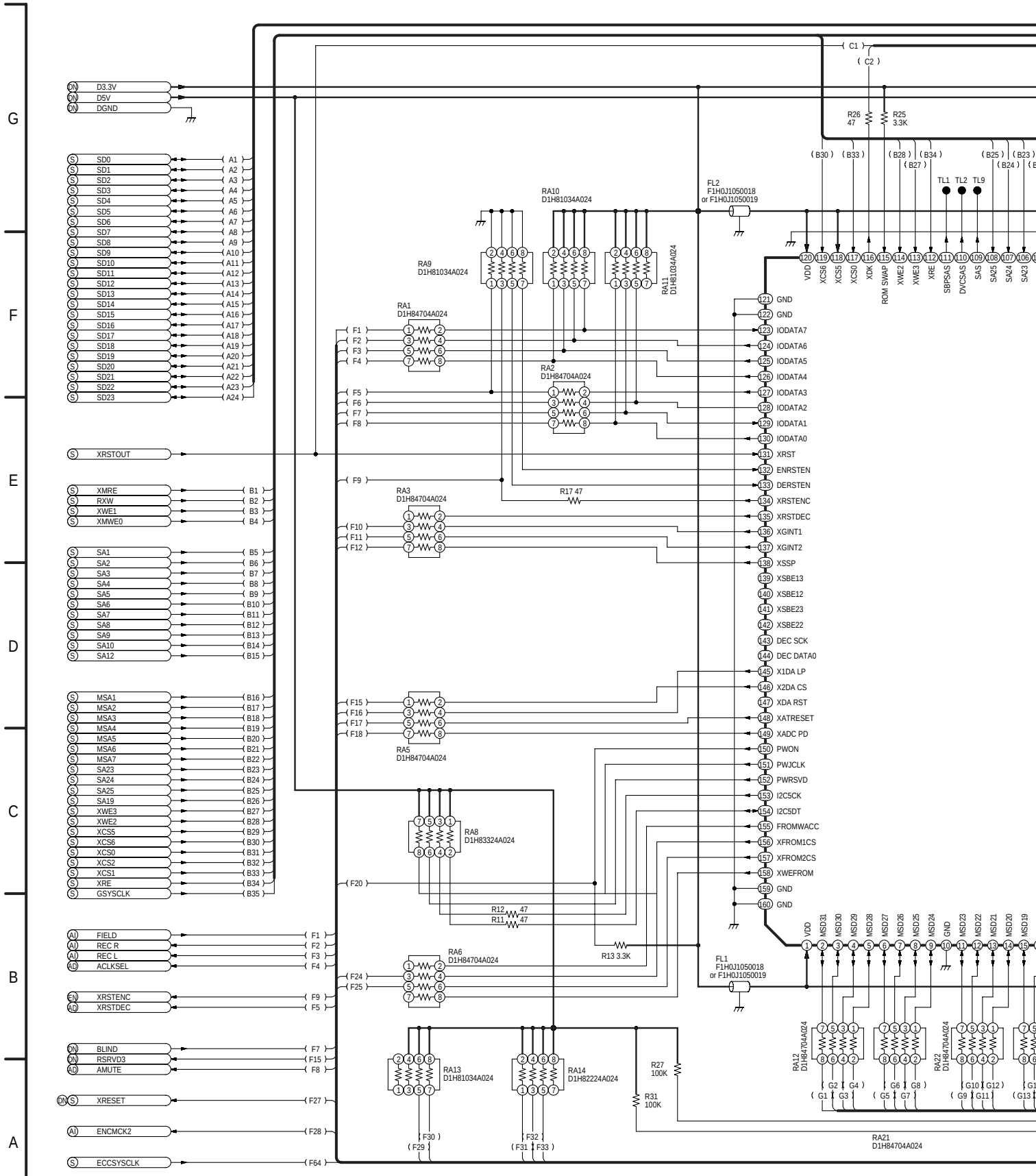
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
System Control Section(Digital P.C.B.(5/7))
Schematic Diagram(S)

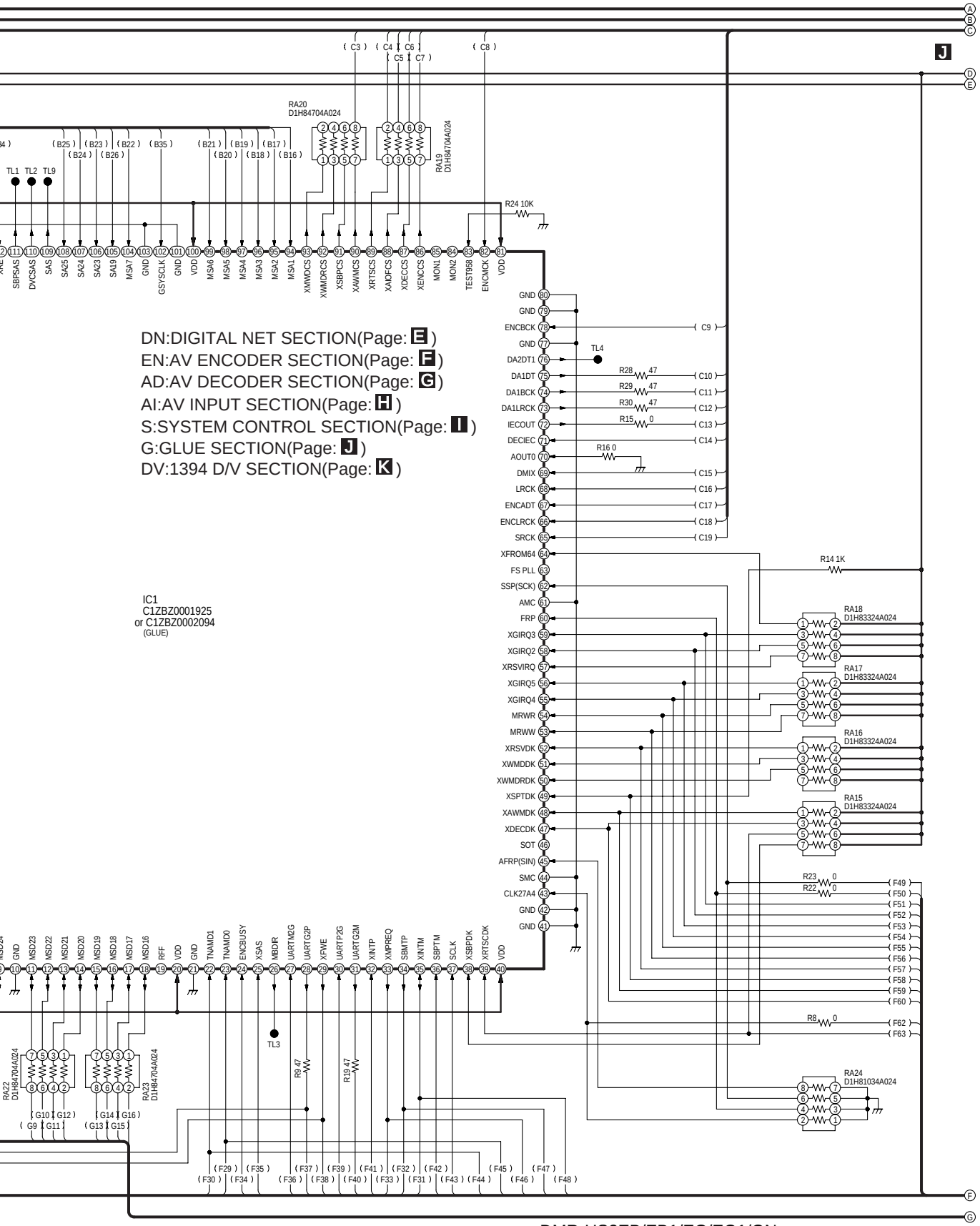
S)

28 29 30 31 32

15.13. Glue Section (Digital P.C.B. (6/7)) Schematic Diagram (G)

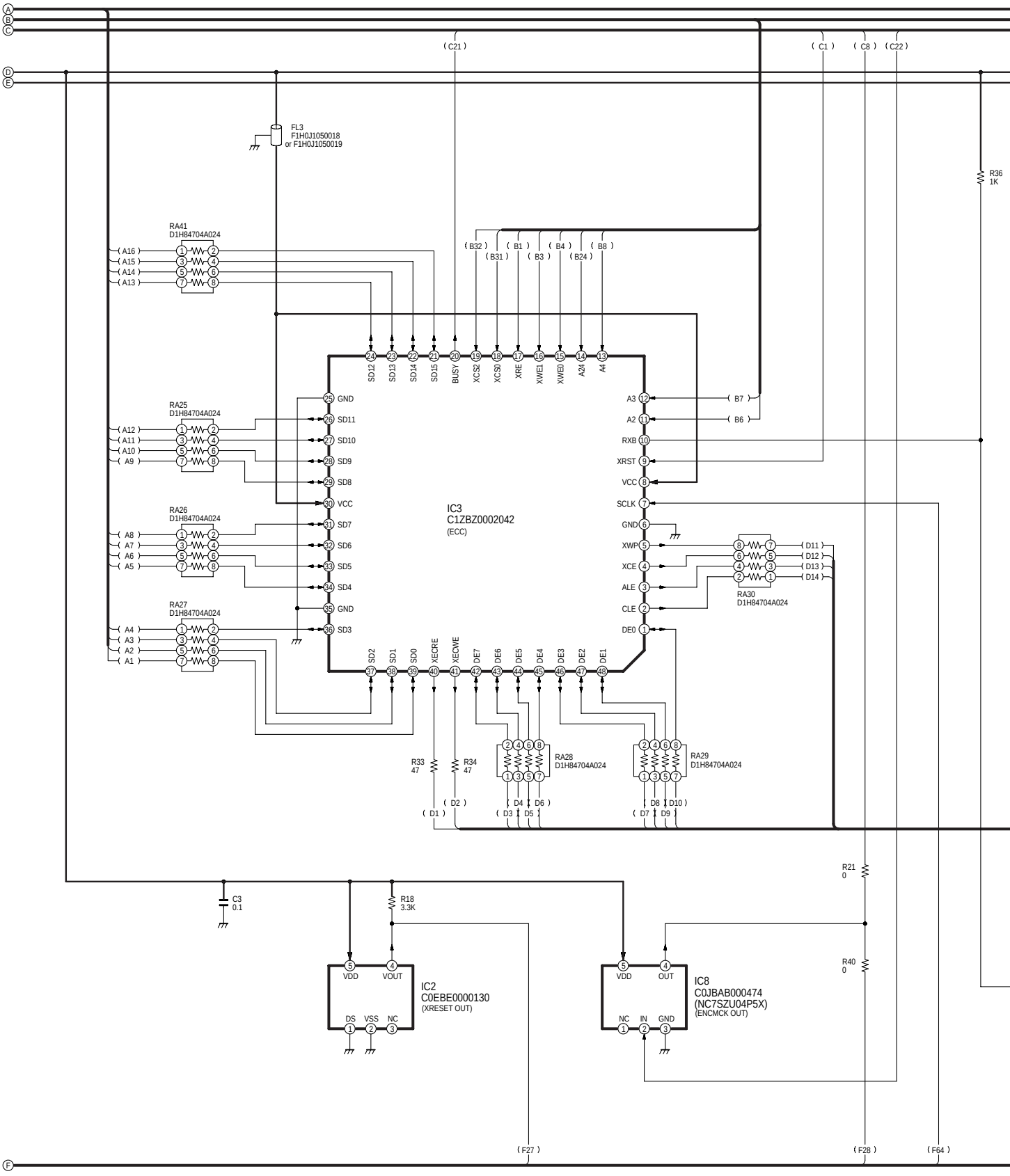


NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

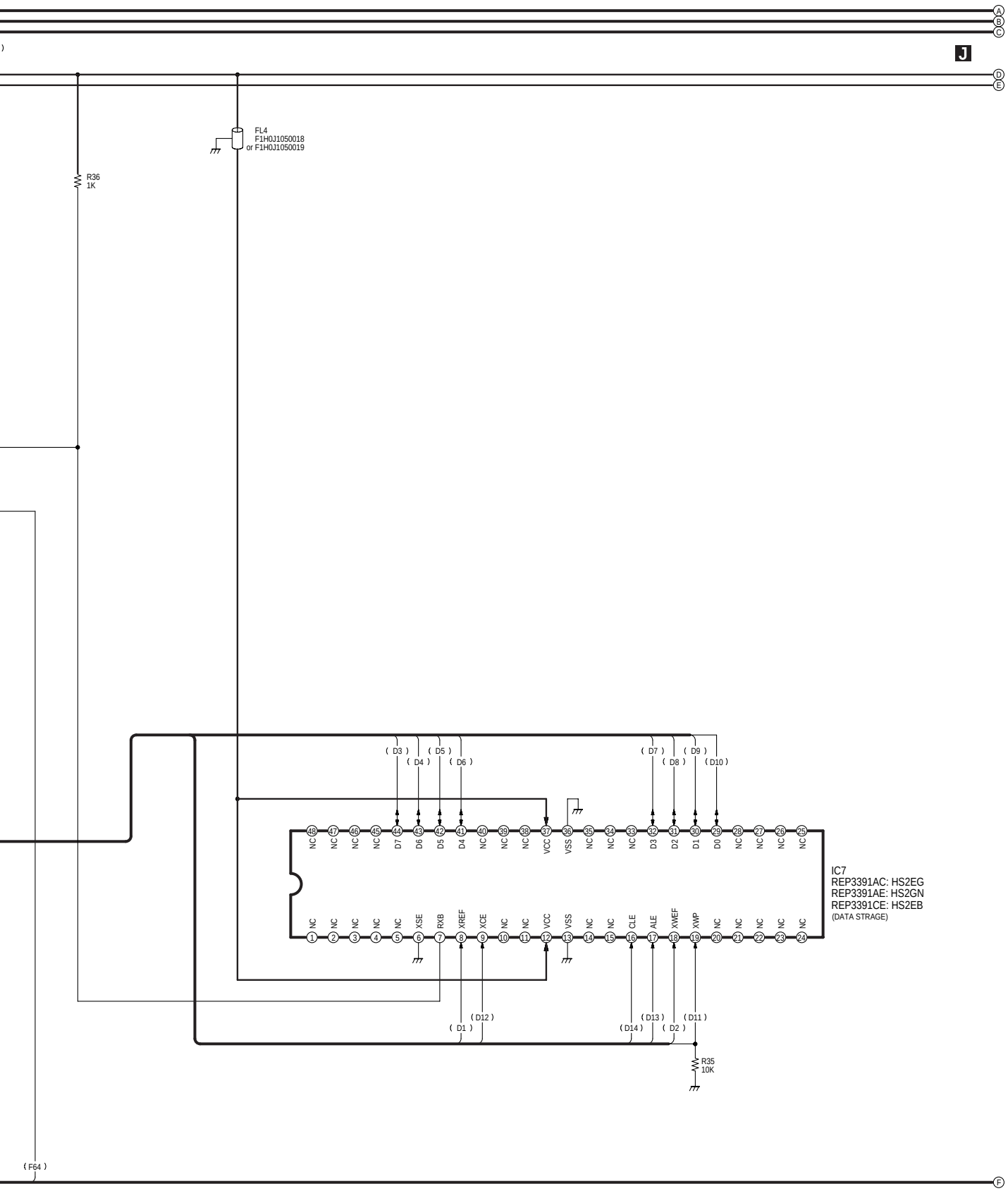


DMR-HS2EB/EB1/EG/EG1/GN
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)

6 | 7 | 8 | 9 | 10 | 11



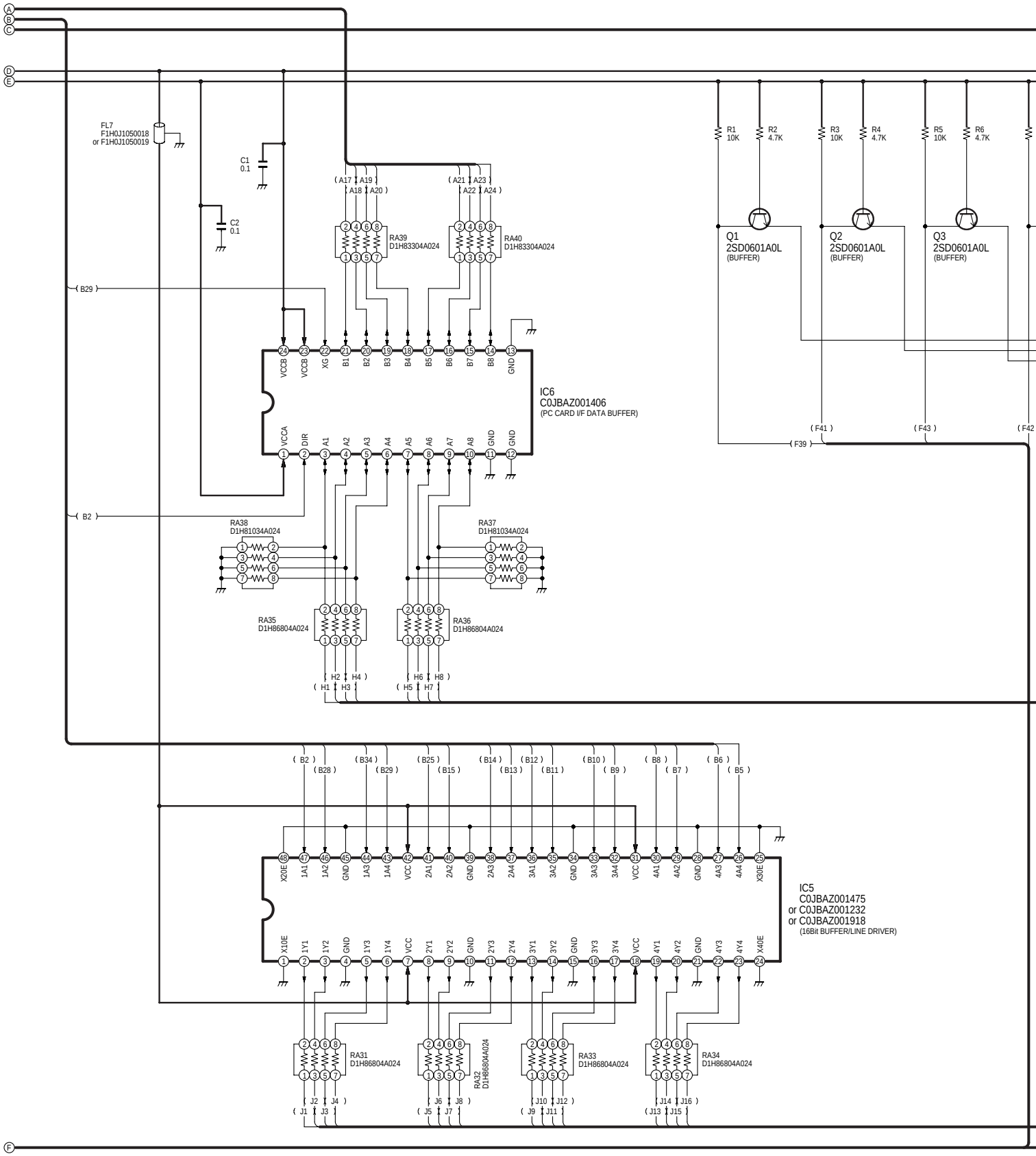
DMR-HS2EB/EB1/EG/EG1/GN
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)


J
FL4
F1H0J1050018
or F1H0J1050019
R36
1K
(D3)
(D5)
(D7)
(D9)
(D4)
(D6)
(D8)
(D10)
NC NC NC NC D7 D8 D5 D4 NC NC NC VCC VSS NC NC NC D3 D2 D1 D0 NC NC NC NC
48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25
NC NC NC NC NC XSE RXB XREF XCE NC NC VCC VSS NC NC CLE ALE XWEF XWP NC NC NC NC NC
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
IC7
REP3391AC: HS2EG
REP3391AE: HS2GN
REP3391CE: HS2EB
(DATA STRAGE)
(D12)
(D1)
(D13)
(D11)
(D14)
(D2)
R35
10K
(F64)

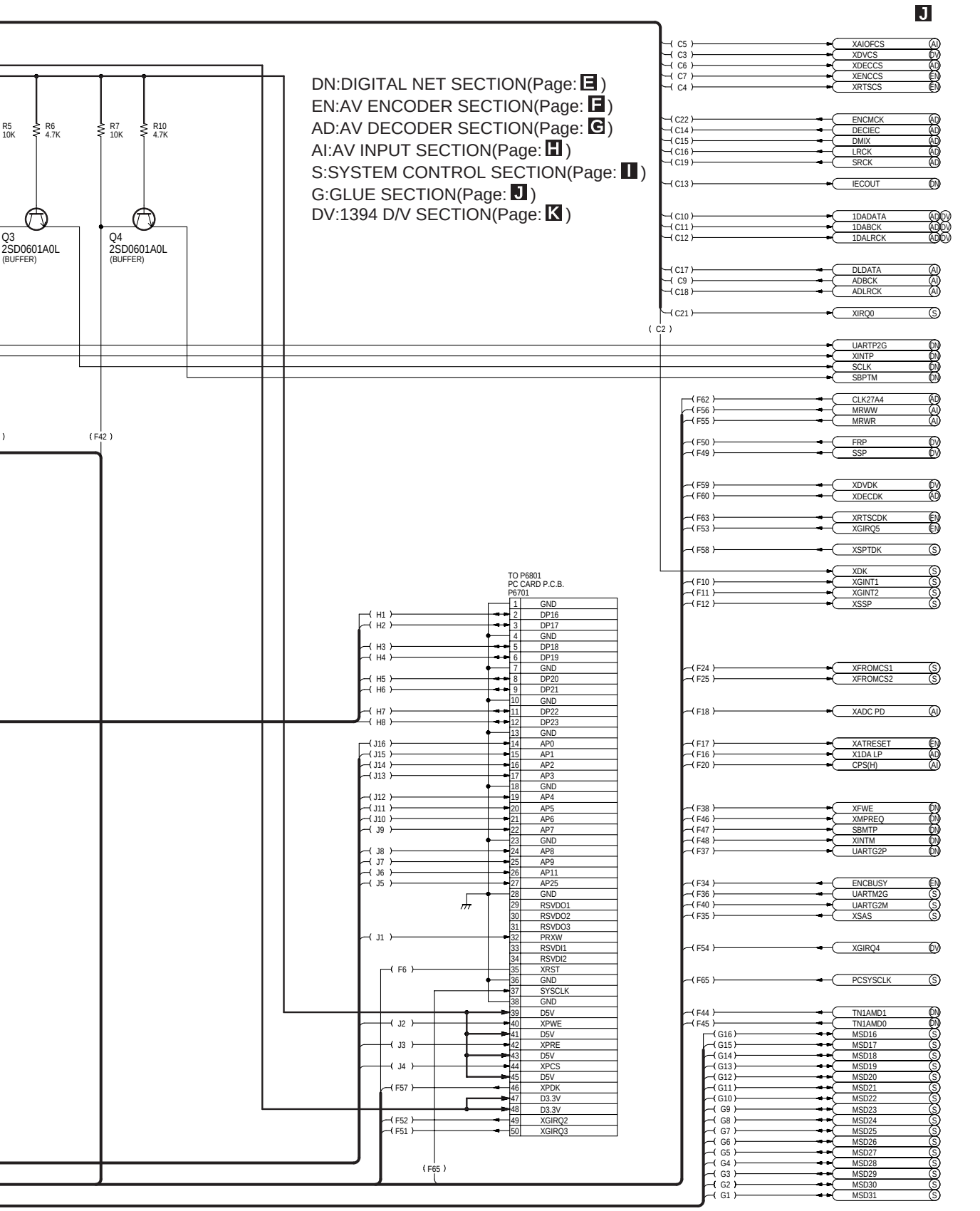
DMR-HS2EB/EB1/EG/EG1/GN
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)

m(G)

17 | 18 | 19 | 20 | 21 | 22



DMR-HS2EB/EB1/EG/EG1/GN
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)



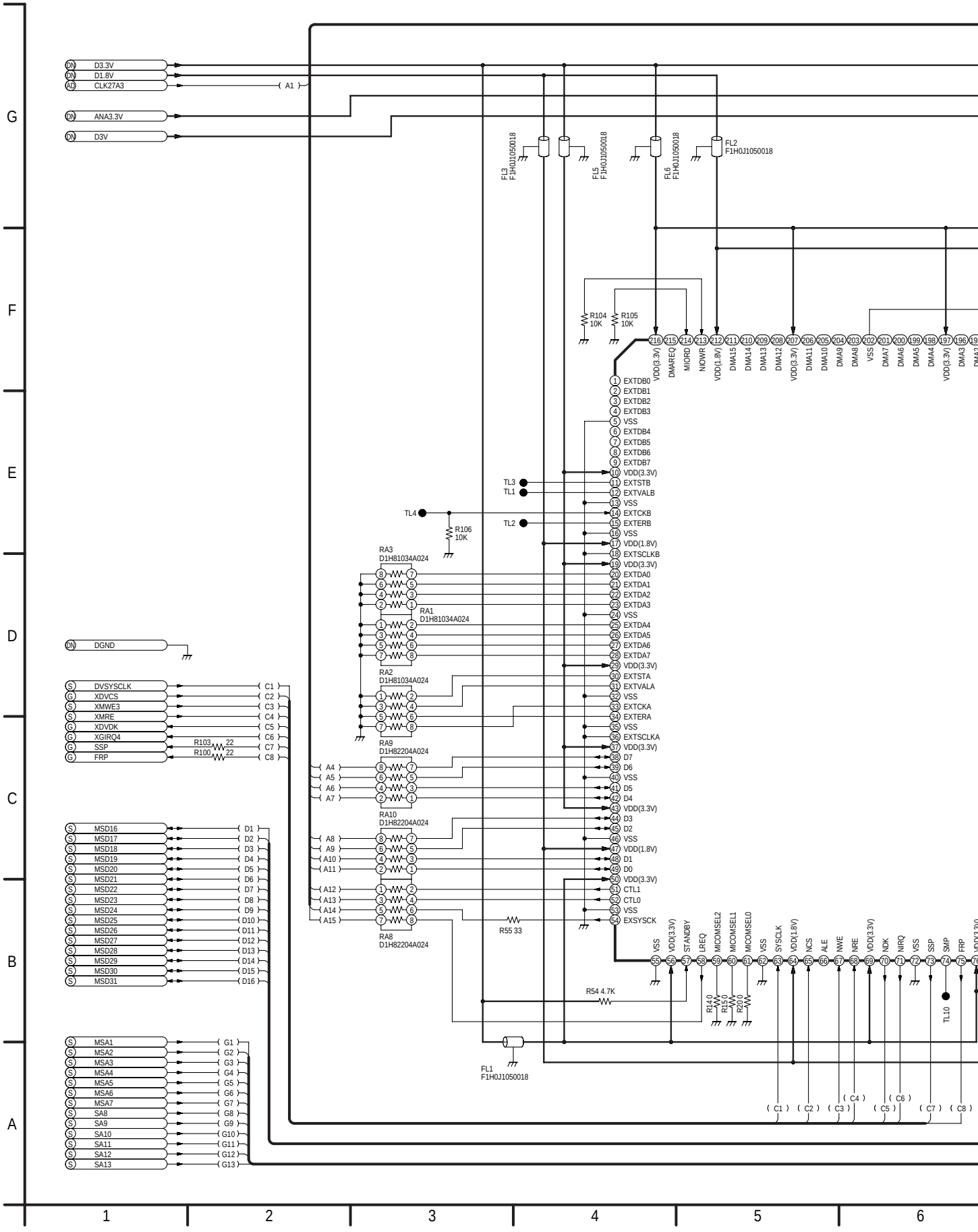
G)

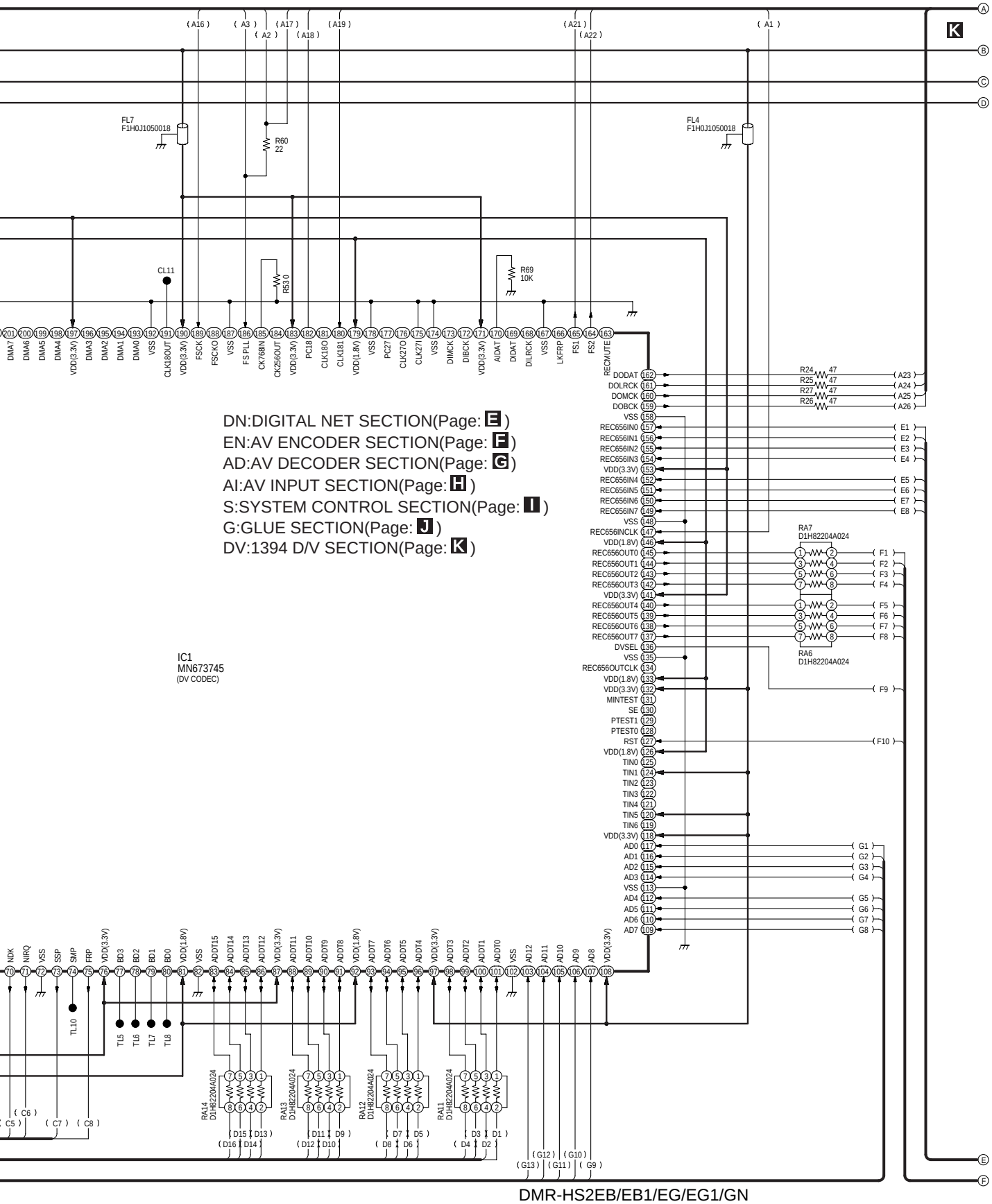
REF NO.6700 SERIES

DMR-HS2EB/EB1/EG/EG1/GN
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)

29 30 31 32 33

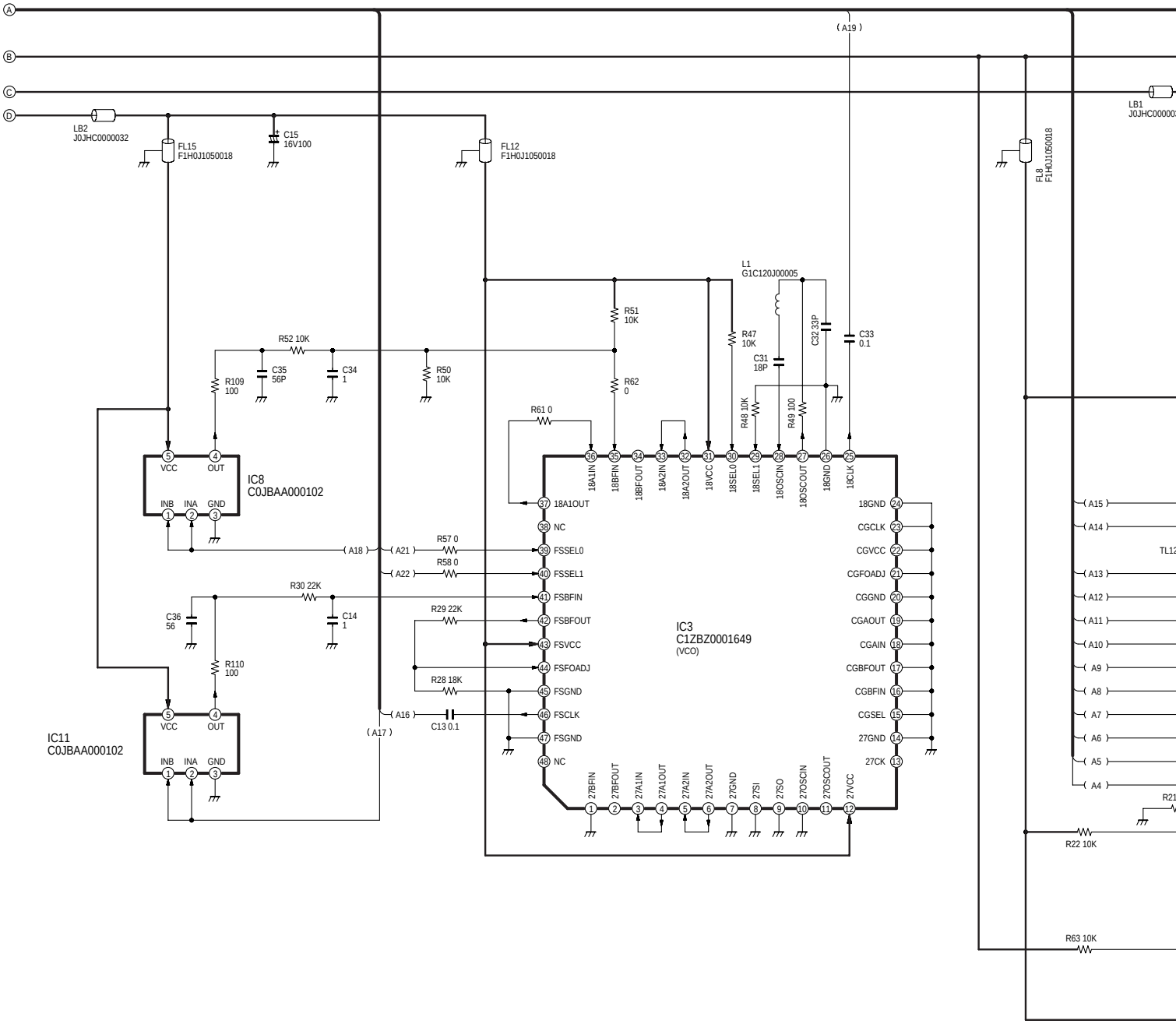
15.14. 1394 D/V Section (Digital P.C.B. (7/7)) Schematic Diagram (DV)

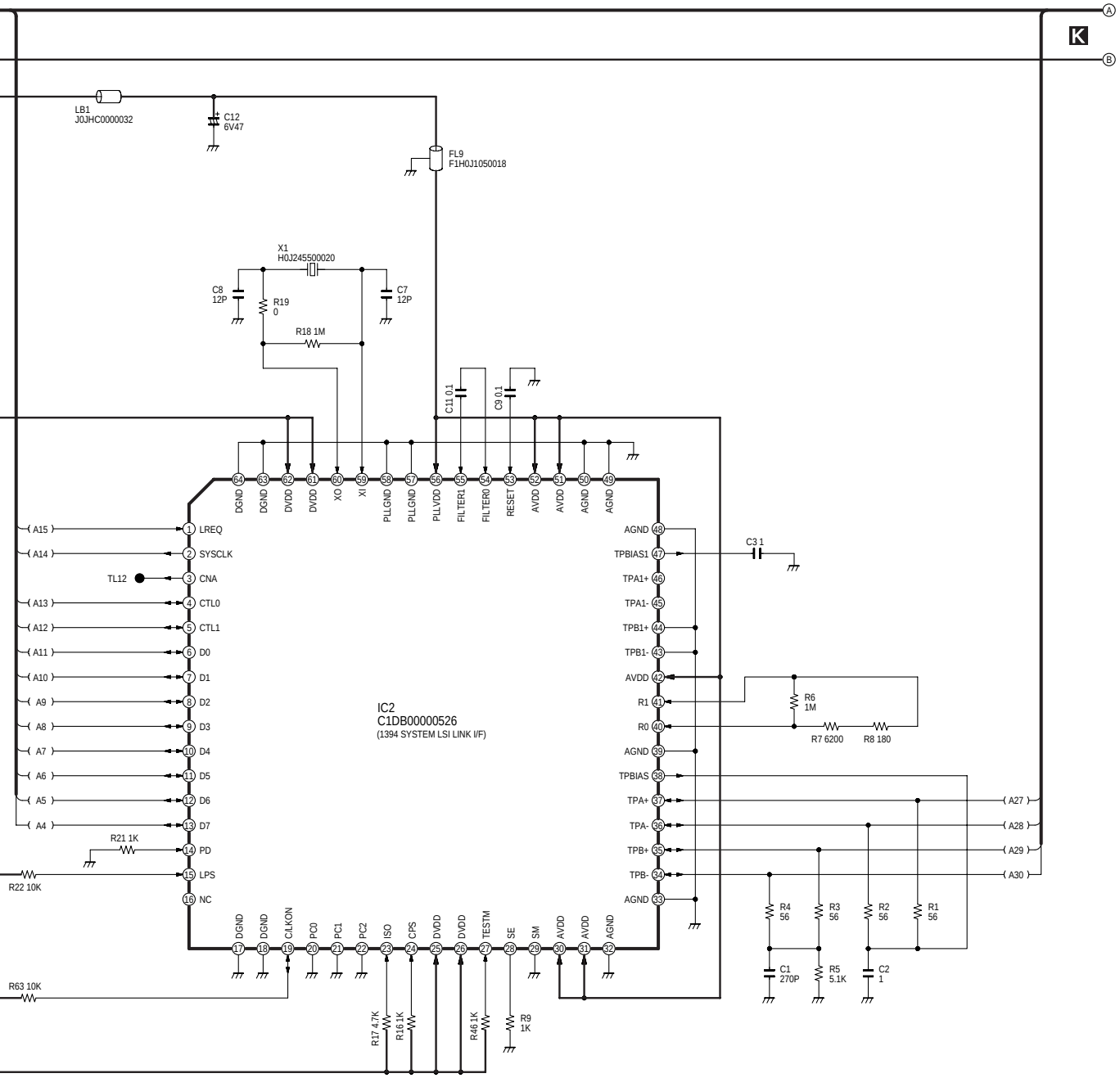


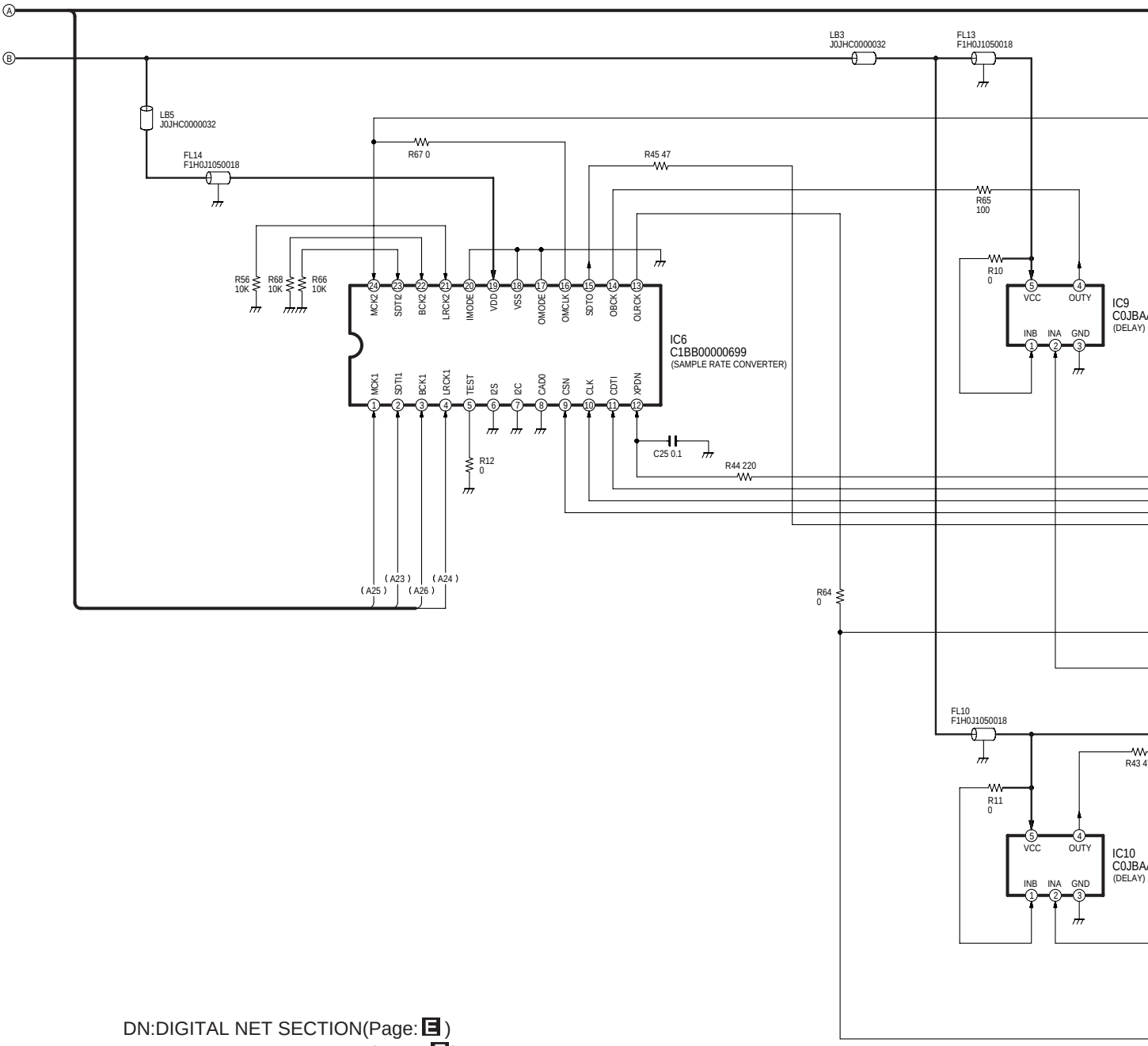


DMR-HS2EB/EB1/EG/EG1/GN
1394 D/V Section(Digital P.C.B.(7/7)) Schematic Diagram(DV)

6 | 7 | 8 | 9 | 10 | 11


LB2
J0JHC0000032
FL15
F1H0J1050018
C15
16V100
FL12
F1H0J1050018
LB1
J0JHC00000
FL8
F1H0J1050018
L1
G1C120J00005
R51
10K
R52 10K
R47
10K
C32 33P
C33
0.1
C31
18P
R109
100
C35
56P
C34
1
R50
10K
R62
0
R48 10K
R49 100
R61 0
IC8
C0JBAA000102
VCC
OUT
INB
INA
GND
IC3
C1ZBZ0001649
(VCO)
18A1IN
18BFIN
18BFOUT
18A2IN
18A2OUT
18VCC
18SEL0
18SEL1
18OSCIN
18OSCOUT
18GND
18CLK
18A1OUT
NC
FSSEL0
FSSEL1
FSBFIN
FSBFOUT
FSVCC
FSFOADJ
FSGND
FSCLK
FSGND
NC
18GND
CGCLK
CGVCC
CGFOADJ
CGGND
CGAOUT
CGAIN
CGBFOUT
CGBFIN
CGSEL
27GND
27CK
27BFIN
27BFOUT
27A1IN
27A1OUT
27A2IN
27A2OUT
27GND
27SI
27SO
27OSCIN
27OSCOUT
27VCC
R57 0
R58 0
R30 22K
R29 22K
R28 18K
C36
56
C14
1
R110
100
C13 0.1
IC11
C0JBAA000102
R22 10K
R63 10K
A15
A14
A13
A12
A11
A10
A9
A8
A7
A6
A5
A4
A16
A17
A18
A19
A21
A22

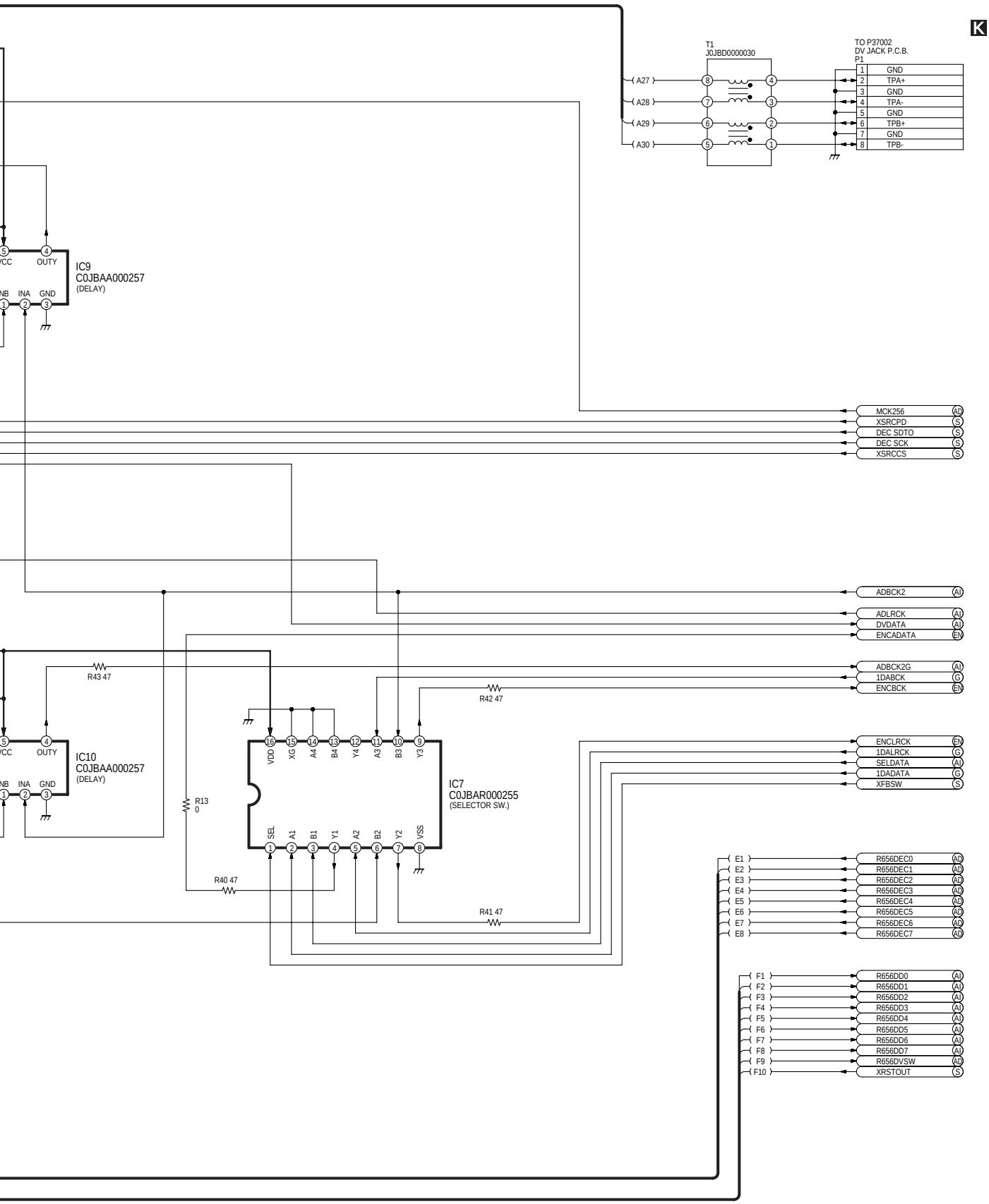

LB1
J0JHC0000032
C12
6V47
FL9
F1H0J1050018
X1
H0J245500020
C8
12P
R19
0
C7
12P
R18 1M
C11 0.1
C9 0.1
IC2
C1DB00000526
(1394 SYSTEM LSI LINK I/F)
LREQ
SYSCLK
CNA
CTL0
CTL1
D0
D1
D2
D3
D4
D5
D6
D7
PD
LPS
NC
DGND
DGND
DVDD
DVDD
XO
XI
PLLGND
PLLGND
PLLVDD
FILTER1
FILTER0
RESET
AVDD
AVDD
AGND
AGND
AGND
TPBIAS1
TPA1+
TPA1-
TPB1+
TPB1-
AVDD
R1
R0
AGND
TPBIAS
TPA+
TPA-
TPB+
TPB-
AGND
C3 1
R6
1M
R7 6200
R8 180
A15
A14
TL12
A13
A12
A11
A10
A9
A8
A7
A6
A5
A4
R21 1K
R22 10K
R63 10K
A27
A28
A29
A30
R4
56
R3
56
R2
56
R1
56
C1
270P
R5
5.1K
C2
1
R17 4.7K
R16 1K
R46 1K
R9
1K
DGND
DGND
C/LKON
PC0
PC1
PC2
ISO
CPS
DVDD
DVDD
TESTM
SE
SM
AVDD
AVDD
AGND



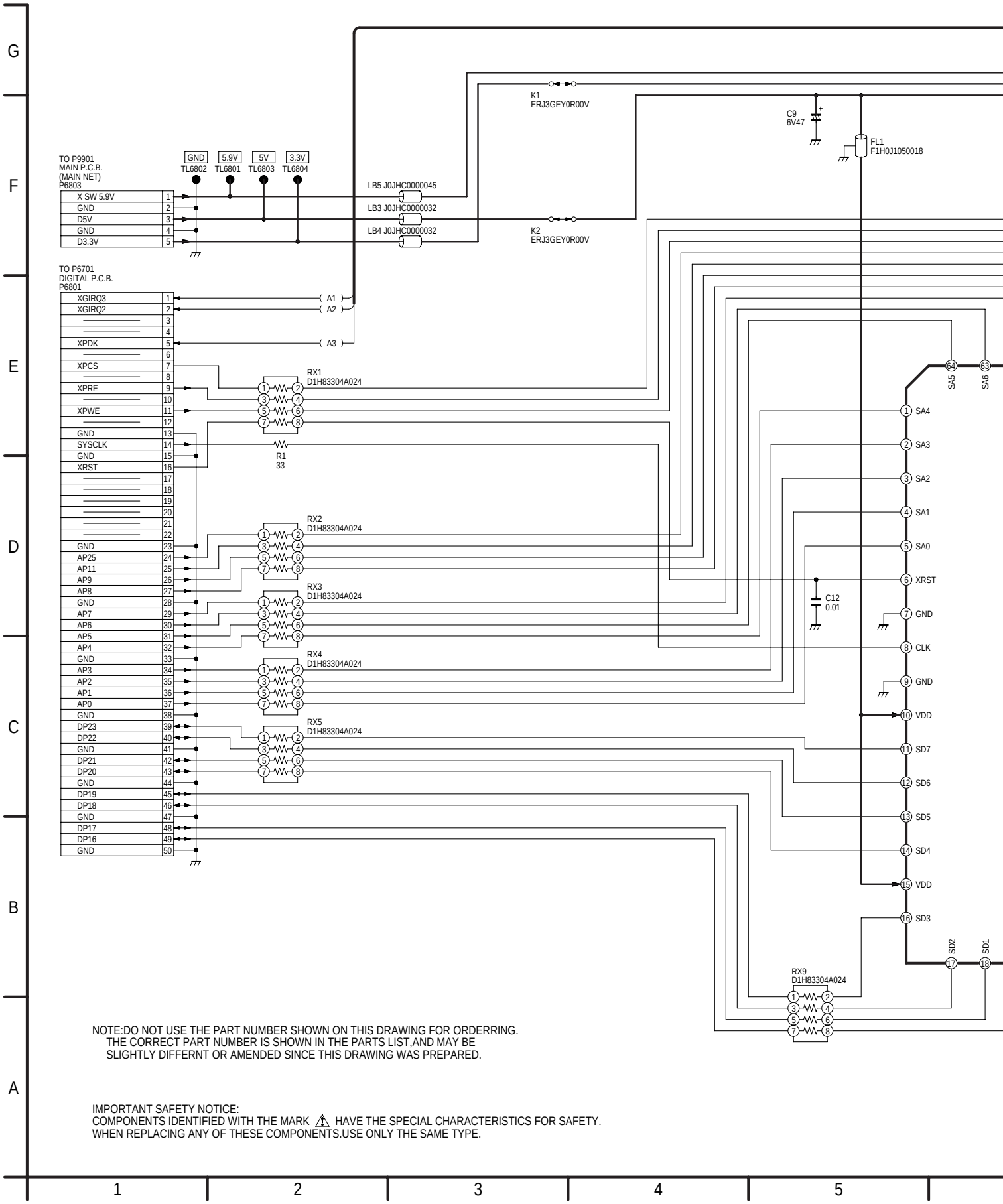
DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)

DMR-HS2EB/EB1/EG/EG1/GN
1394 D/V Section(Digital P.C.B.(7/7)) Schematic Diagram(DV)

23 24 25 26 27 28

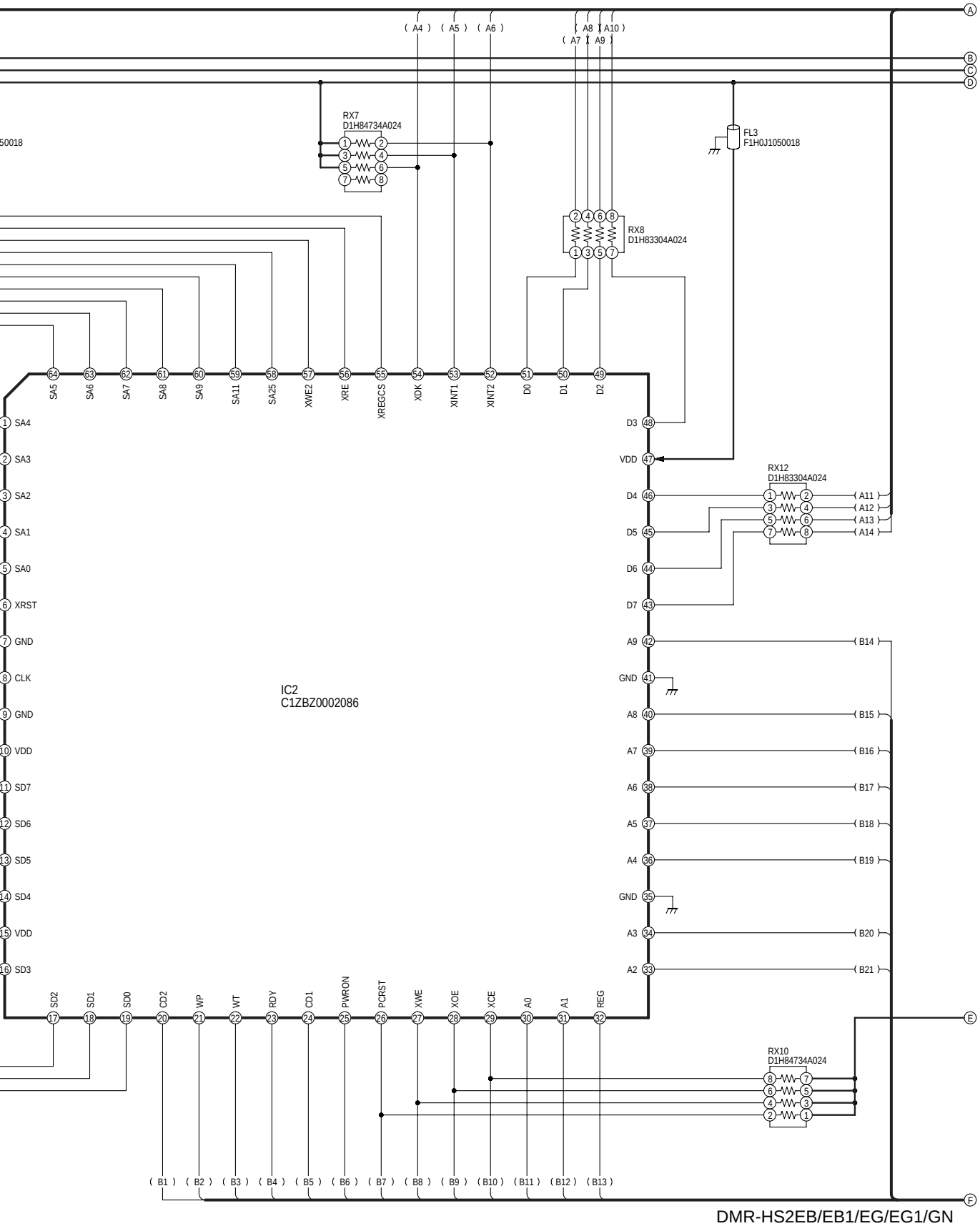

T1
J0JBD0000030
TO P37002
DV JACK P.C.B.
P1
A27
A28
A29
A30
GND
TPA+
GND
TPA-
GND
TPB+
GND
TPB-
IC9
C0JBAA000257
(DELAY)
VCC
OUTY
INB
INA
GND
MCK256
XSRCPD
DEC SDTO
DEC SCK
XSRCCS
ADBCK2
ADLRCK
DVDATA
ENCADATA
ADBCK2G
1DABCK
ENCBCK
R43 47
R42 47
IC10
C0JBAA000257
(DELAY)
IC7
C0JBAR000255
(SELECTOR SW.)
VDD
XG
A4
B4
Y4
A3
B3
Y3
SEL
A1
B1
Y1
A2
B2
Y2
VSS
R13
0
R40 47
R41 47
ENCLRCK
1DALRCK
SELDATA
1DADATA
XFBSW
E1
E2
E3
E4
E5
E6
E7
E8
R656DEC0
R656DEC1
R656DEC2
R656DEC3
R656DEC4
R656DEC5
R656DEC6
R656DEC7
F1
F2
F3
F4
F5
F6
F7
F8
F9
F10
R656DD0
R656DD1
R656DD2
R656DD3
R656DD4
R656DD5
R656DD6
R656DD7
R656DVSW
XRSTOUT

15.15. PC Card Schematic Diagram



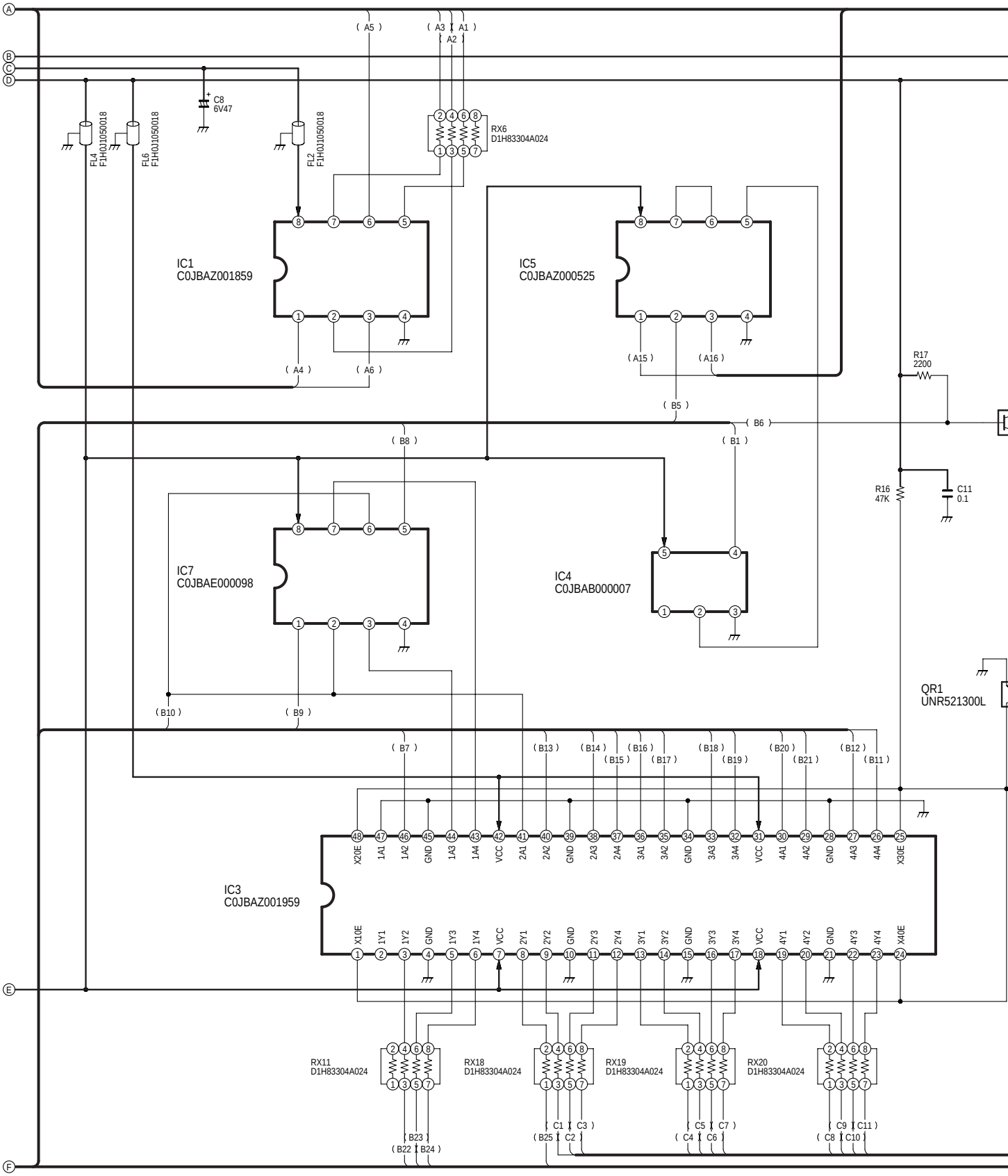
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.USE ONLY THE SAME TYPE.

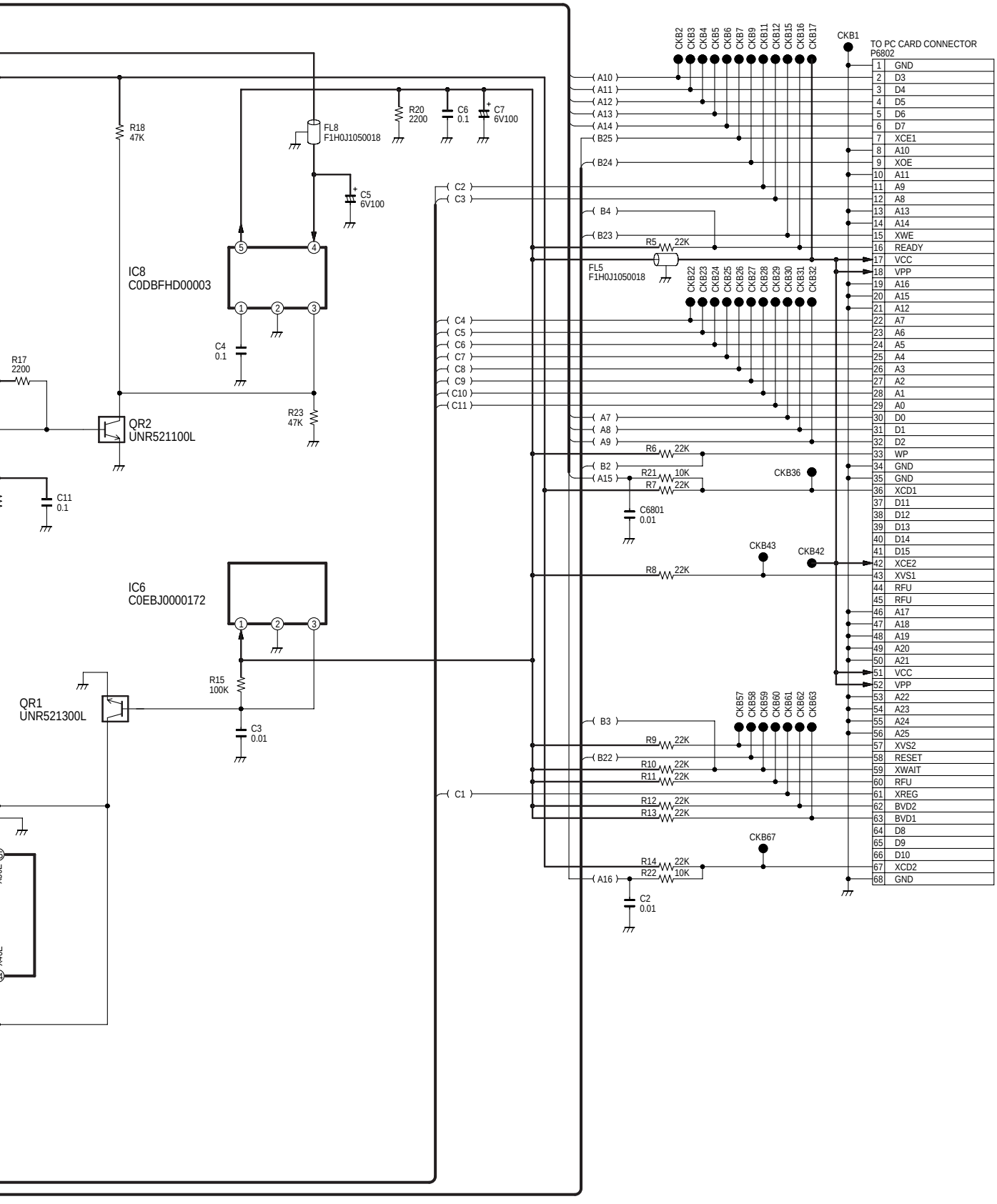


DMR-HS2EB/EB1/EG/EG1/GN
PC Card Schematic Diagram

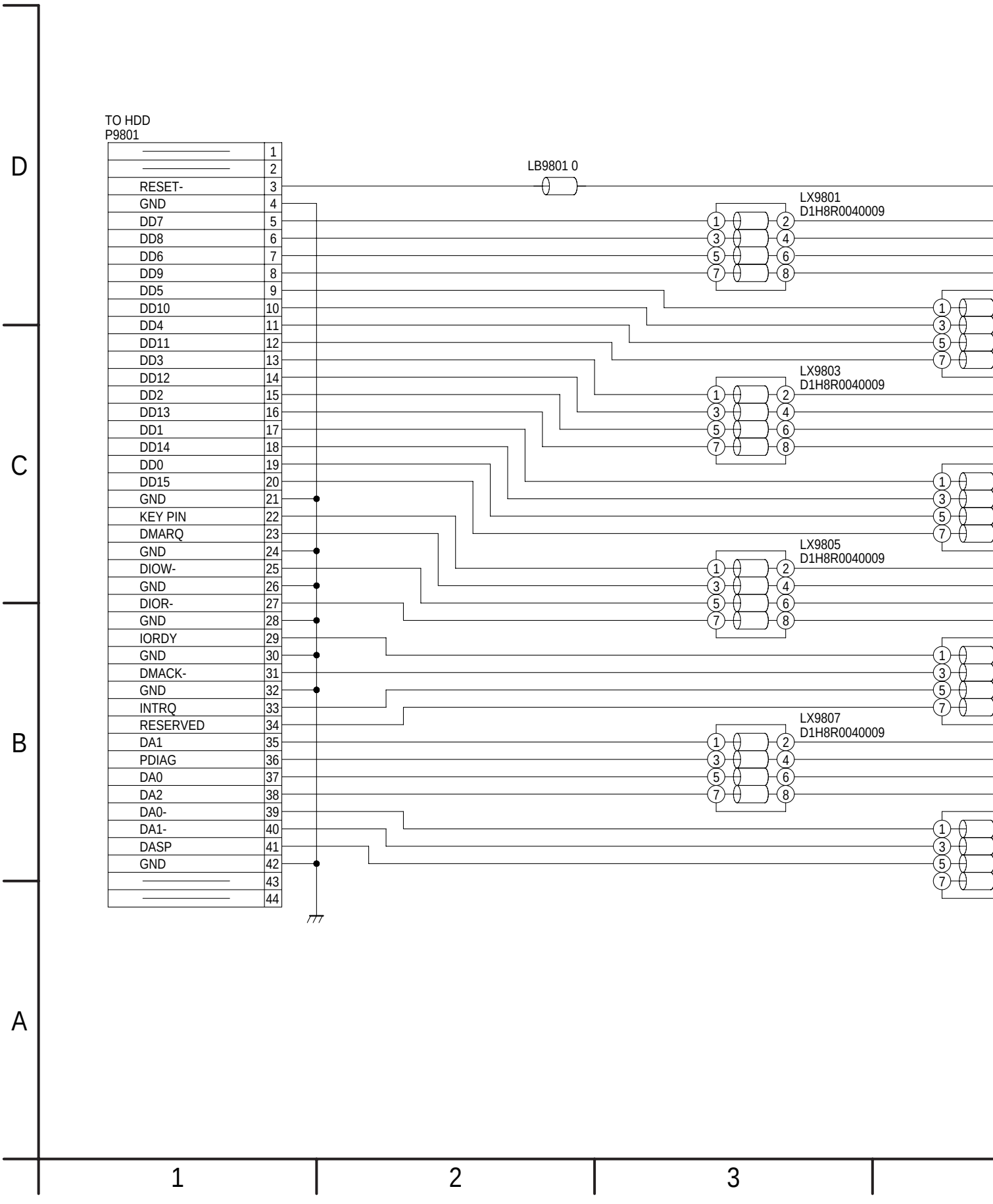
6 7 8 9 10

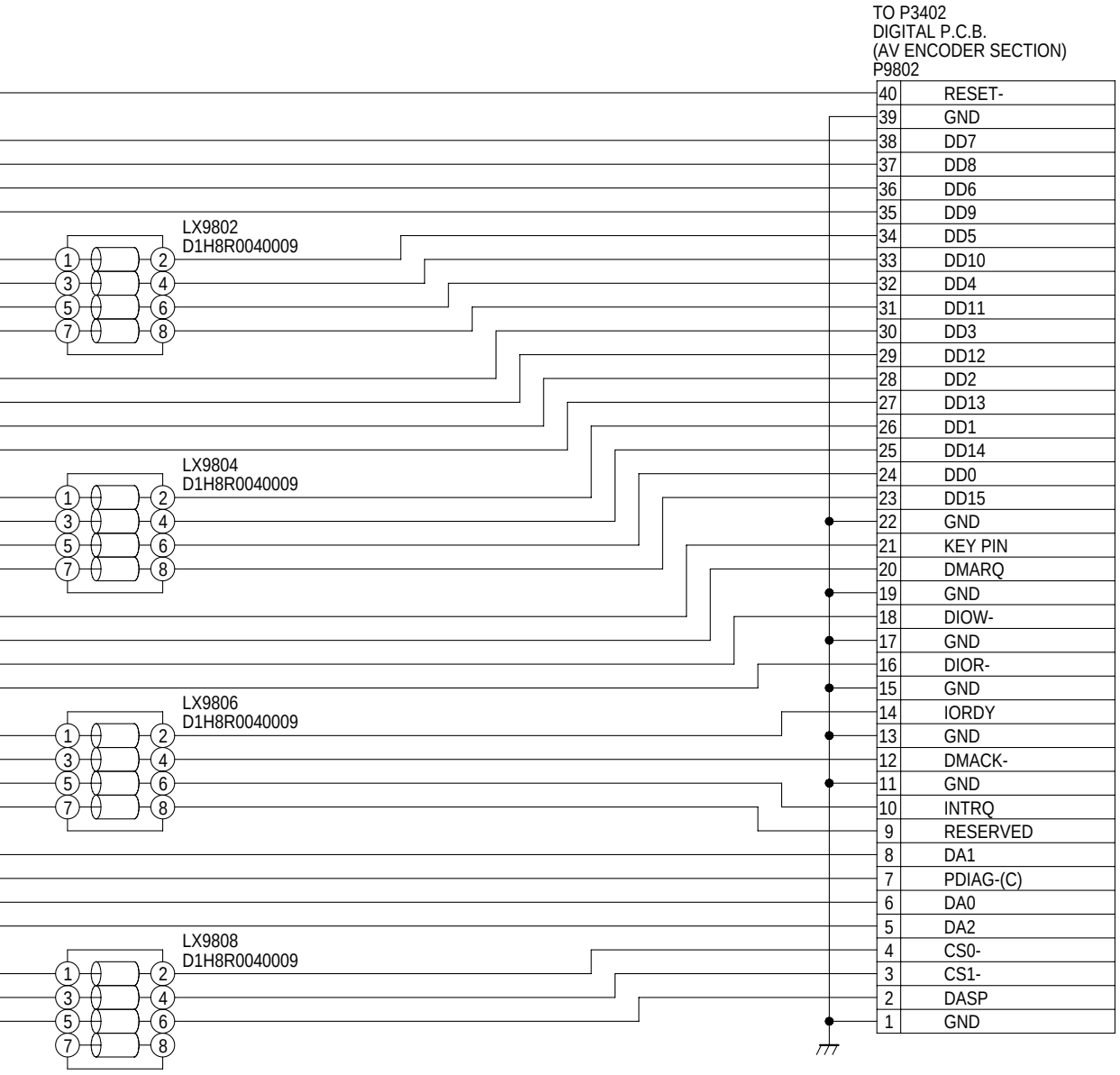


DMR-HS2EB/EB1/EG/EG1/GN
PC Card Schematic Diagram


R18 47K
FL8 F1H0J1050018
R20 2200
C6 0.1
C7 6V100
C5 6V100
IC8 C0DBFHD00003
C4 0.1
R17 2200
QR2 UNR521100L
R23 47K
C11 0.1
IC6 C0EBJ0000172
R15 100K
QR1 UNR521300L
C3 0.01
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C1
FL5 F1H0J1050018
R5 22K
R6 22K
R21 10K
R7 22K
C6801 0.01
R8 22K
R9 22K
R10 22K
R11 22K
R12 22K
R13 22K
R14 22K
R22 10K
C2 0.01
A10
A11
A12
A13
A14
B25
B24
B4
B23
A7
A8
A9
B2
A15
B3
B22
A16
CKB2
CKB3
CKB4
CKB5
CKB6
CKB7
CKB9
CKB11
CKB12
CKB15
CKB16
CKB17
CKB22
CKB23
CKB24
CKB25
CKB26
CKB27
CKB28
CKB29
CKB30
CKB31
CKB32
CKB57
CKB58
CKB59
CKB60
CKB61
CKB62
CKB63
CKB1
CKB36
CKB43
CKB42
CKB67
TO PC CARD CONNECTOR P6802
1 GND
2 D3
3 D4
4 D5
5 D6
6 D7
7 XCE1
8 A10
9 XOE
10 A11
11 A9
12 A8
13 A13
14 A14
15 XWE
16 READY
17 VCC
18 VPP
19 A16
20 A15
21 A12
22 A7
23 A6
24 A5
25 A4
26 A3
27 A2
28 A1
29 A0
30 D0
31 D1
32 D2
33 WP
34 GND
35 GND
36 XCD1
37 D11
38 D12
39 D13
40 D14
41 D15
42 XCE2
43 XVS1
44 RFU
45 RFU
46 A17
47 A18
48 A19
49 A20
50 A21
51 VCC
52 VPP
53 A22
54 A23
55 A24
56 A25
57 XVS2
58 RESET
59 XWAIT
60 RFU
61 XREG
62 BVD2
63 BVD1
64 D8
65 D9
66 D10
67 XCD2
68 GND

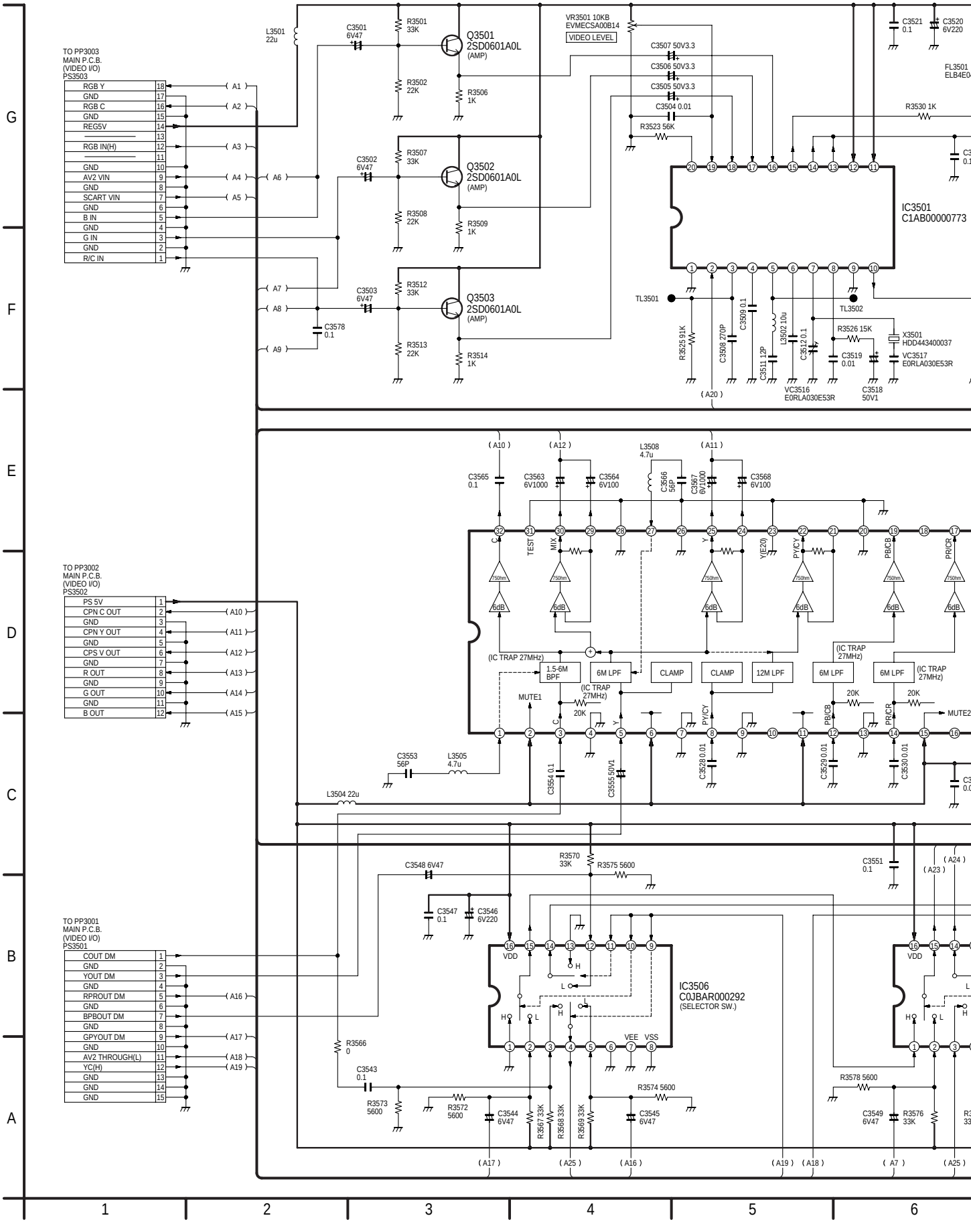
15.16. ATAPI Schematic Diagram

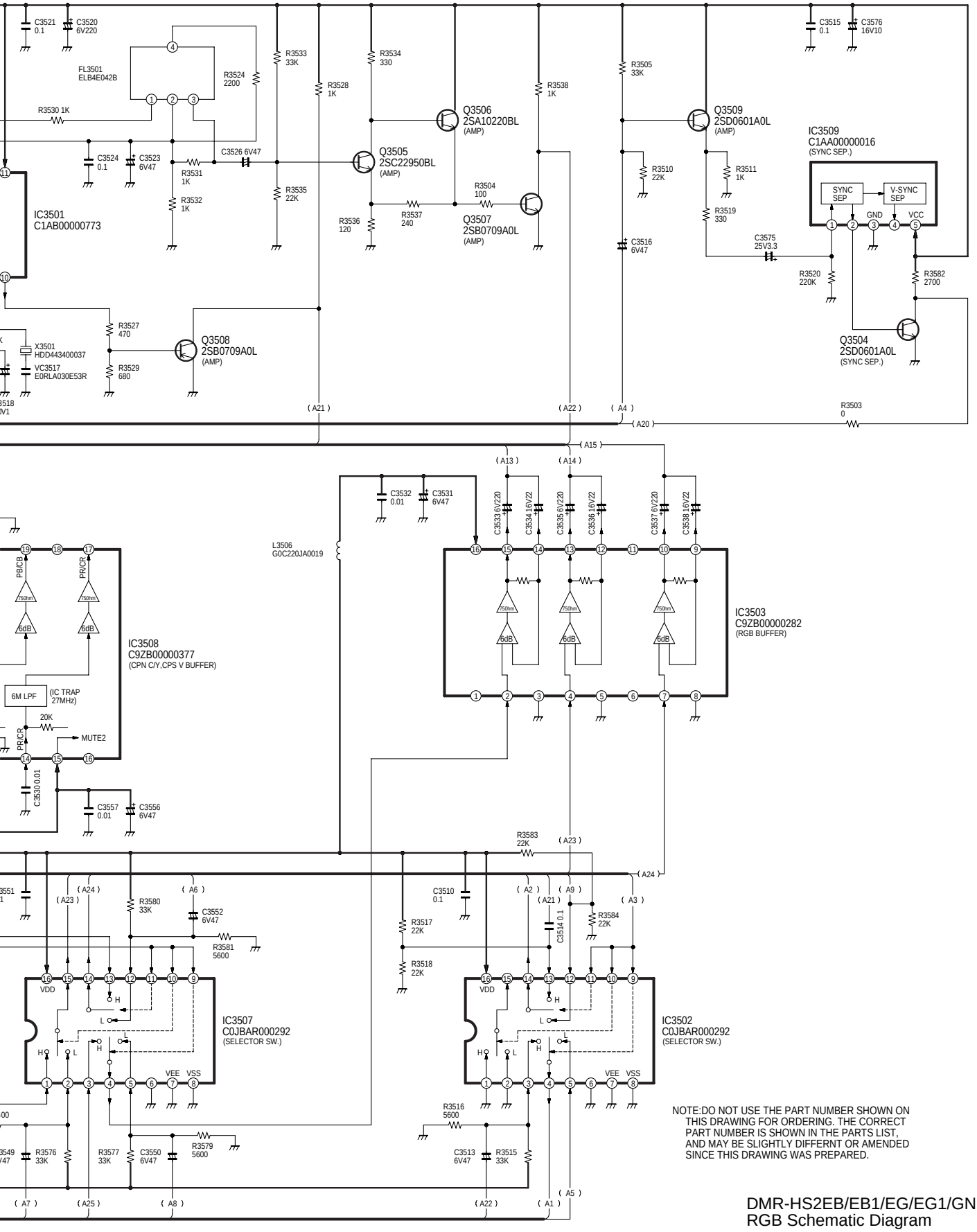




DMR-HS2EB/EB1/EG/EG1/GN
ATAPI Schematic Diagram

15.17. RGB Schematic Diagram



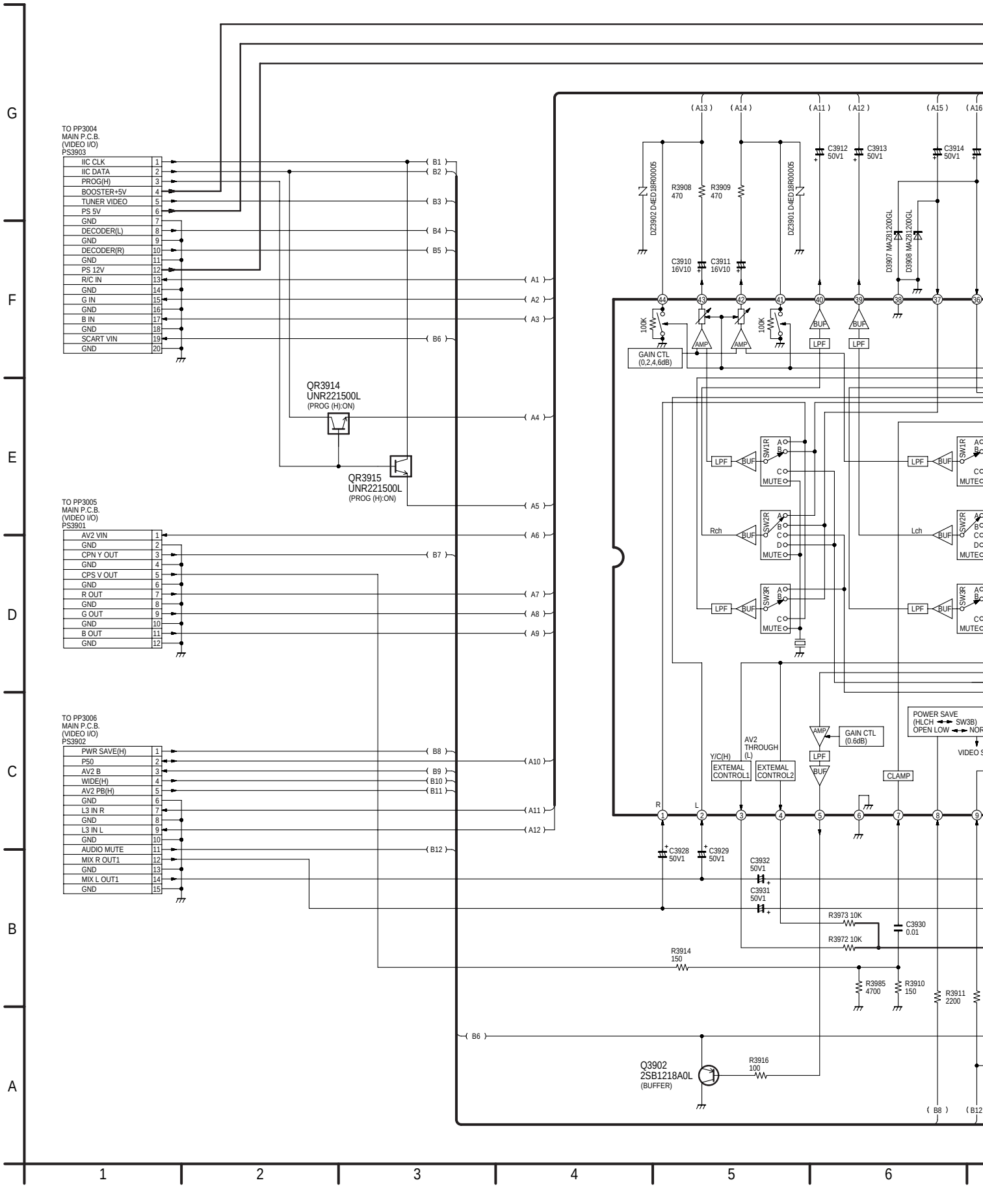


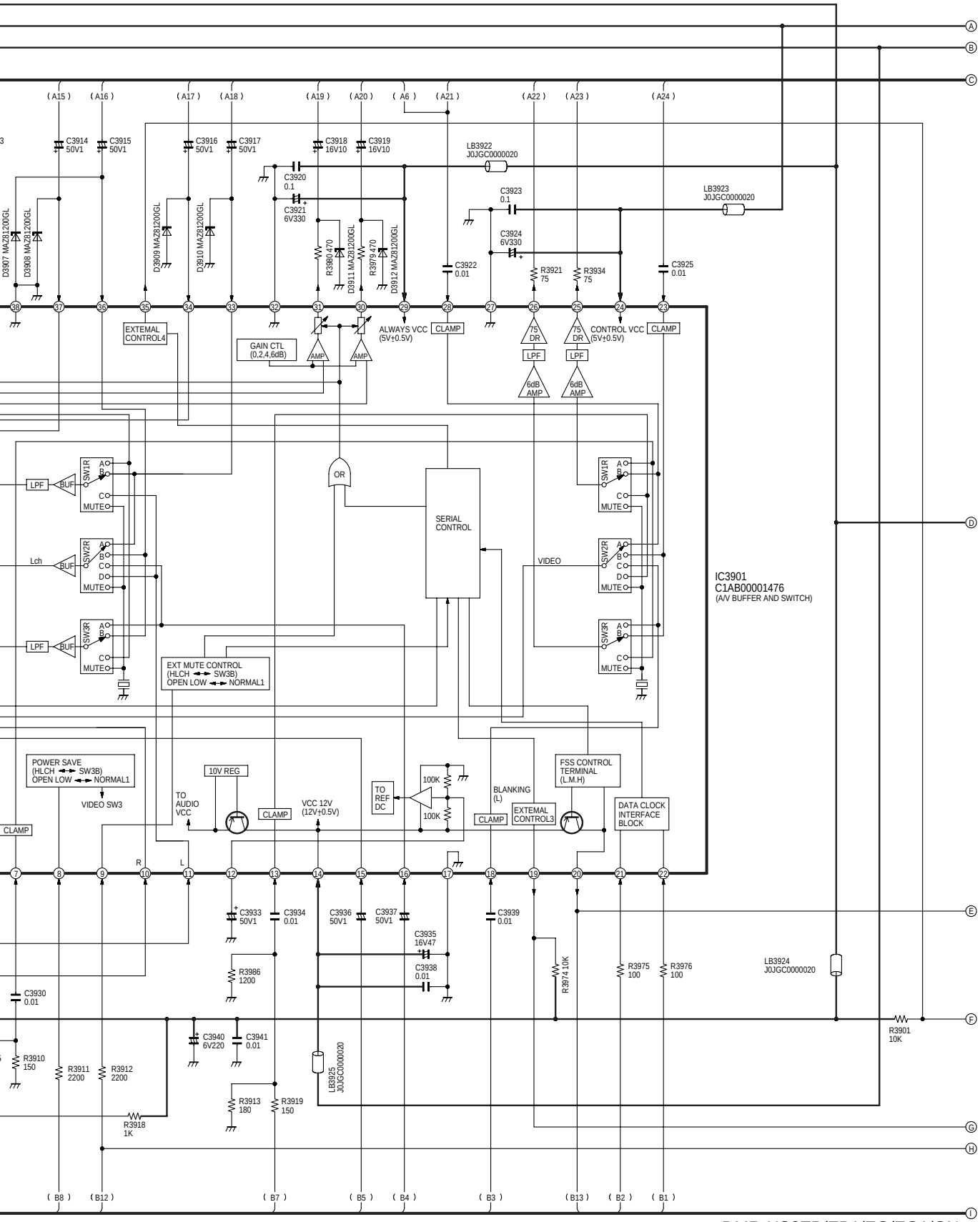
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN
RGB Schematic Diagram

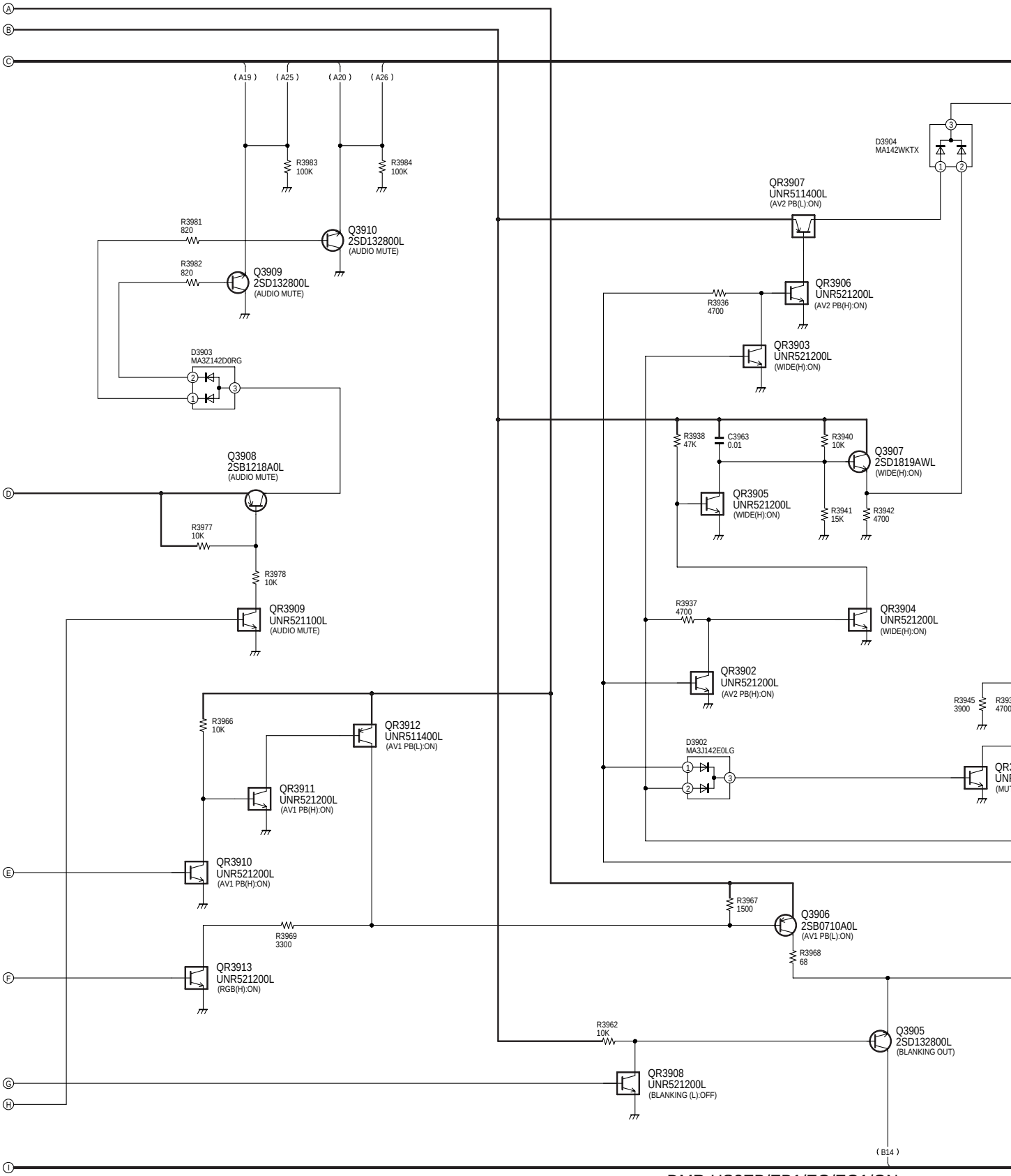
6 | 7 | 8 | 9 | 10 | 11

15.18. Scart Schematic Diagram





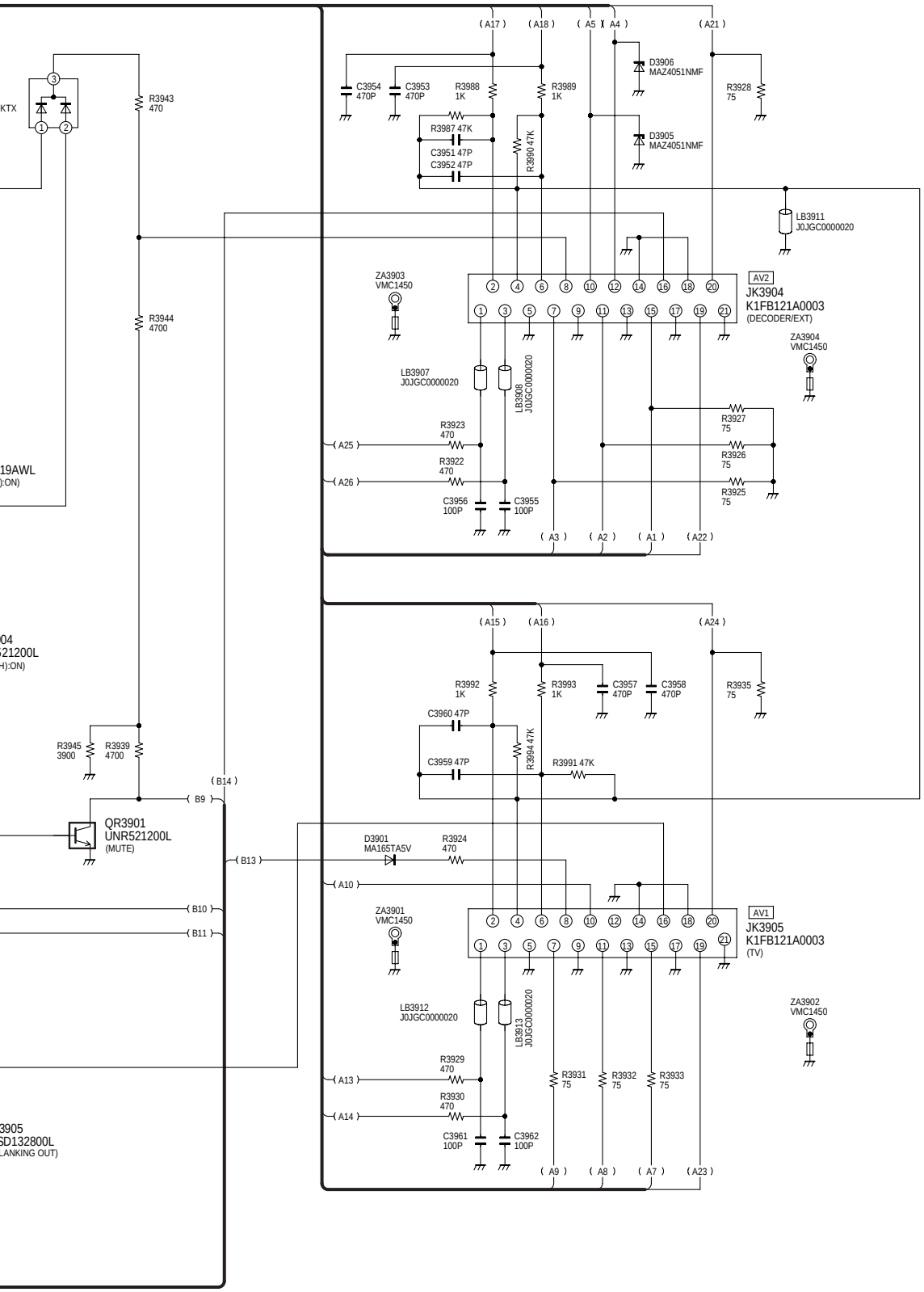
DMR-HS2EB/EB1/EG/EG1/GN
Scart Schematic Diagram



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN
Scart Schematic Diagram

12 13 14 15 16 17



AV2

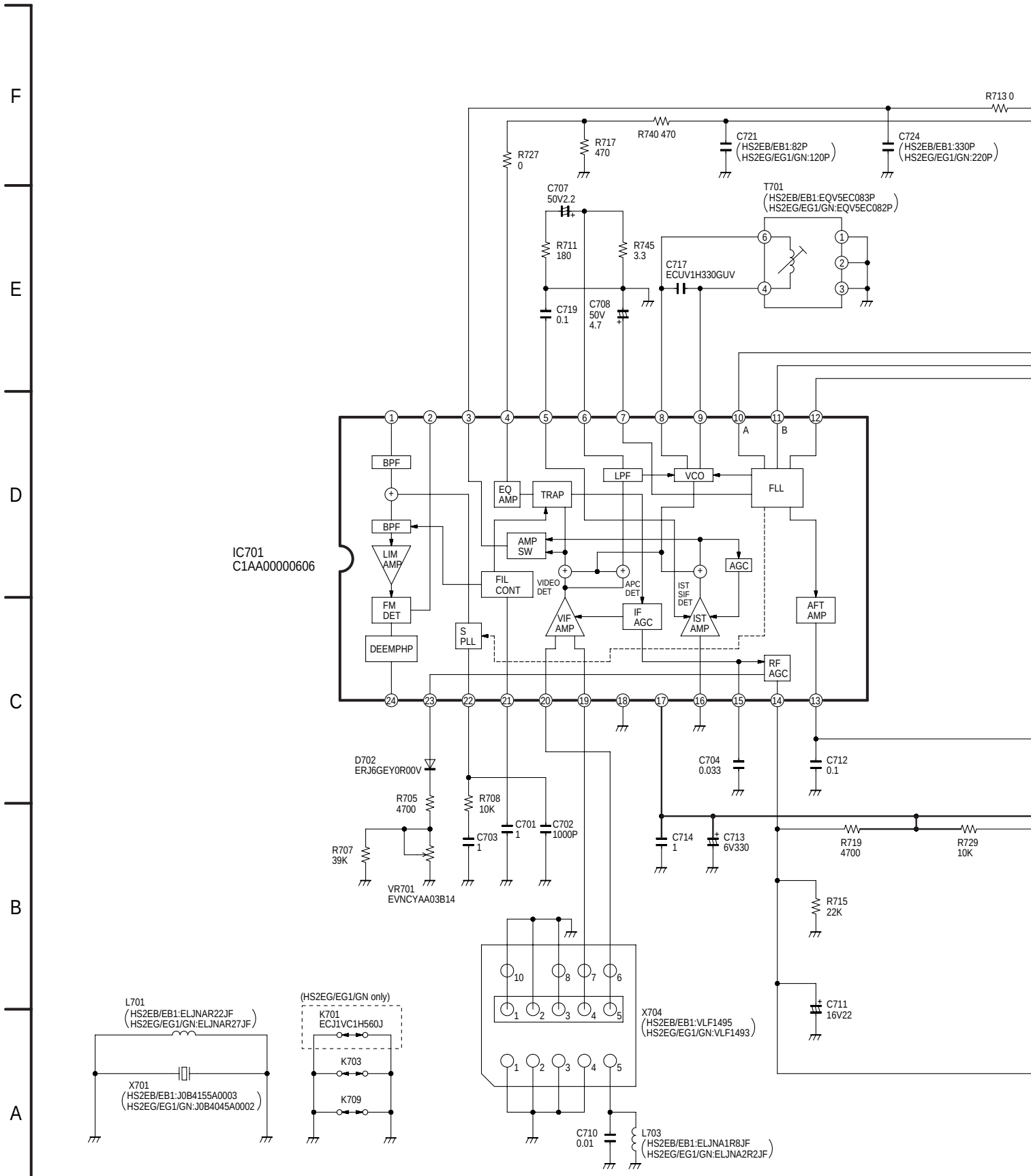
1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	AV2 +12V
9	GND
10	-/CONTROL
11	GREEN
12	-/DATA
13	GND
14	GND
15	RED/C IN
16	BLANKING
17	GND
18	GND
19	VIDEO OUT
20	VIDEO IN/Y IN
21	GND

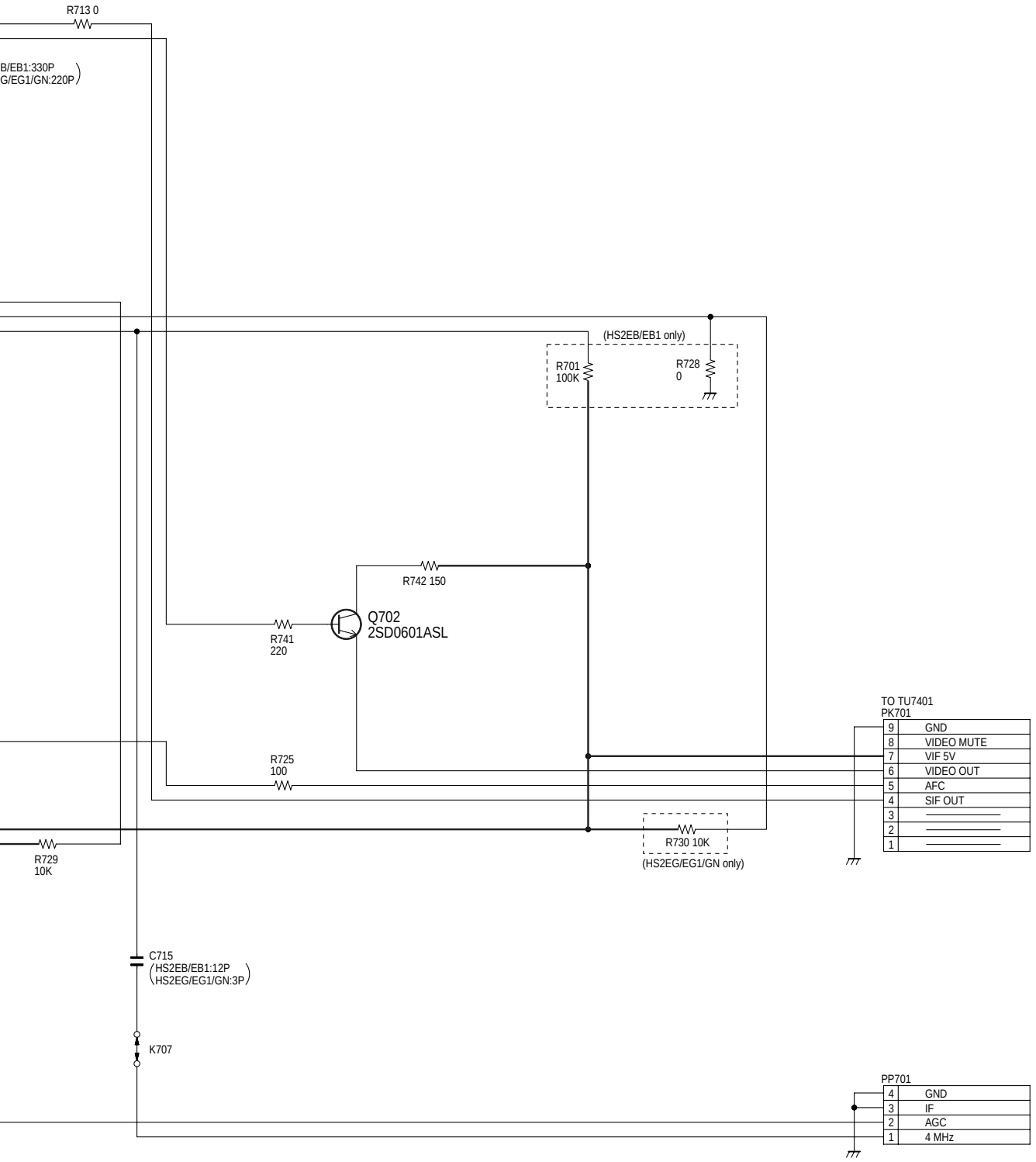
AV1

1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	PB +12V
9	GND
10	-/CONTROL
11	GREEN
12	-/DATA
13	GND
14	GND
15	RED/C OUT
16	BLANKING
17	GND
18	GND
19	VIDEO OUT/Y OUT
20	VIDEO IN
21	GND

DMR-HS2EB/EB1/EG/EG1/GN
Scart Schematic Diagram

15.19. VIF Decoder Schematic Diagram



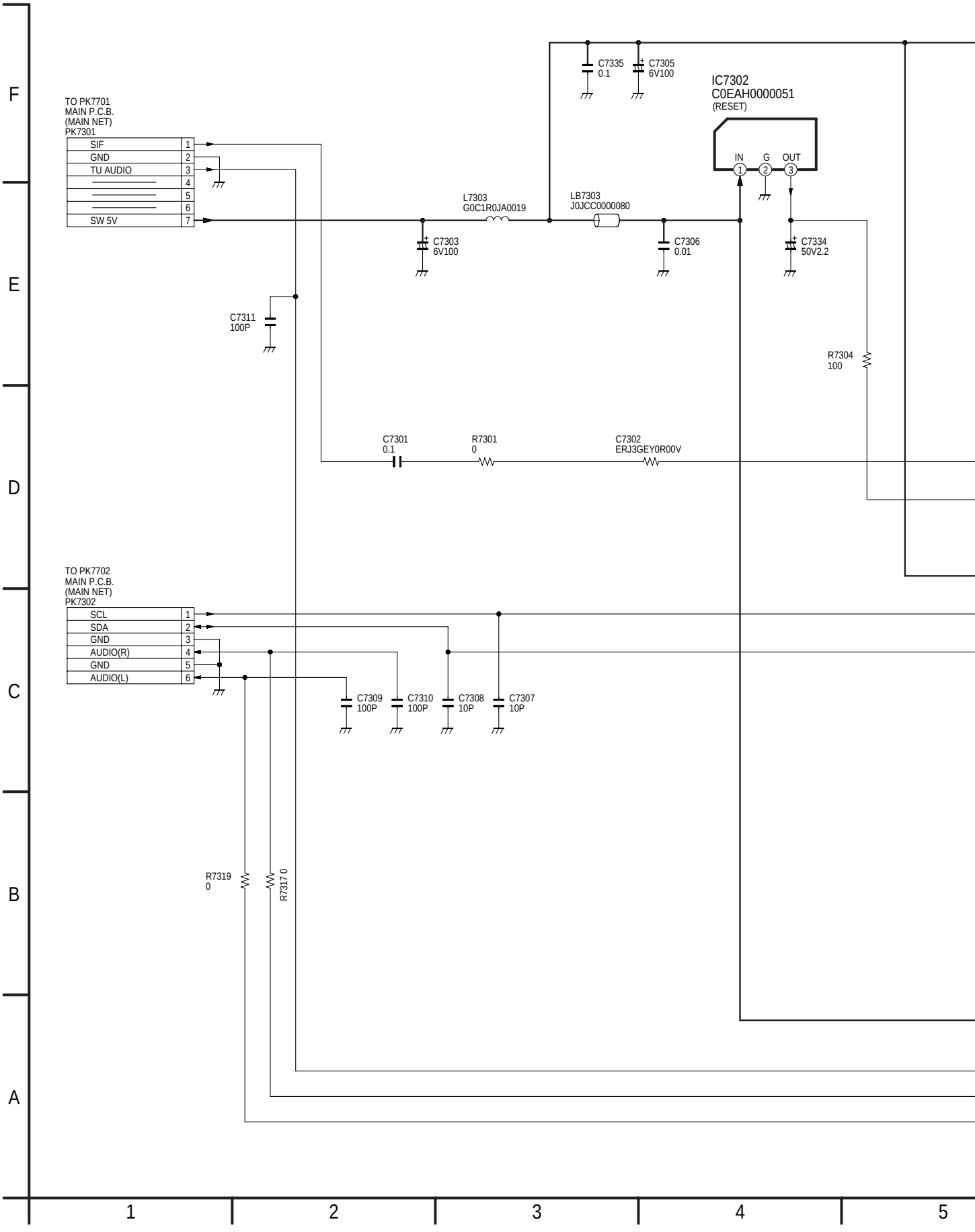


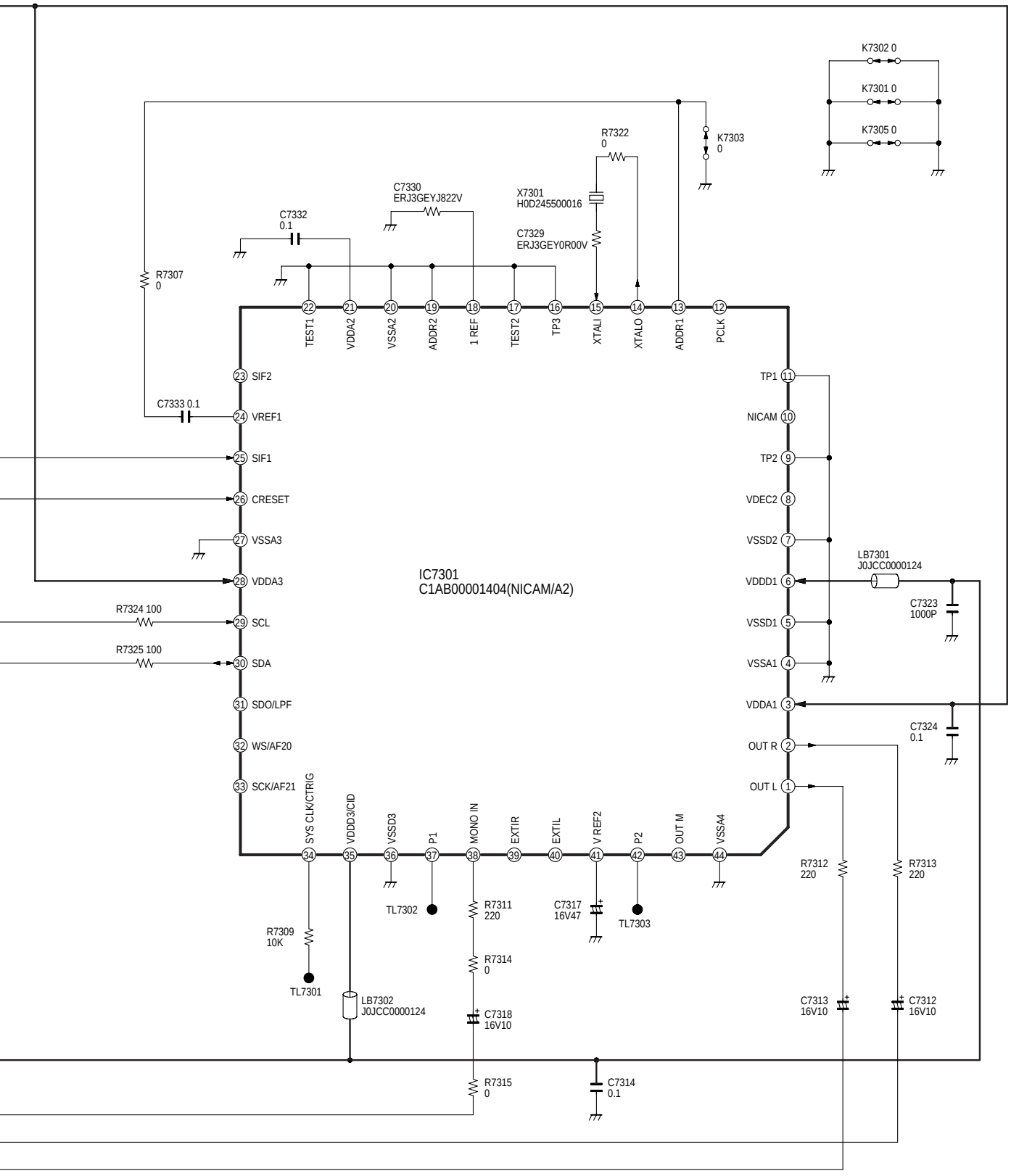
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
VIF Decoder Schematic Diagram

5 | 6 | 7 | 8

15.20. Nicam/Decoder Schematic Diagram



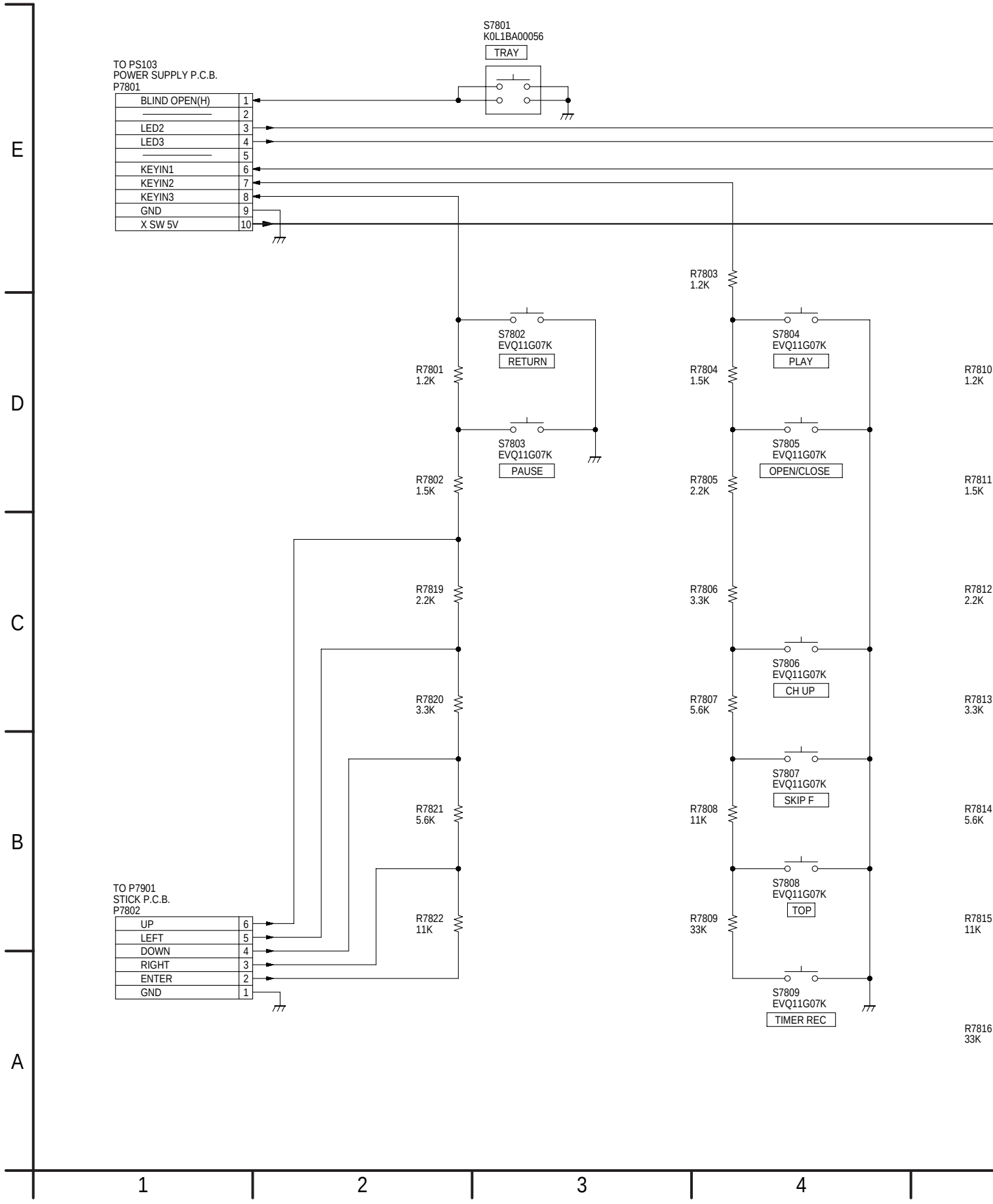


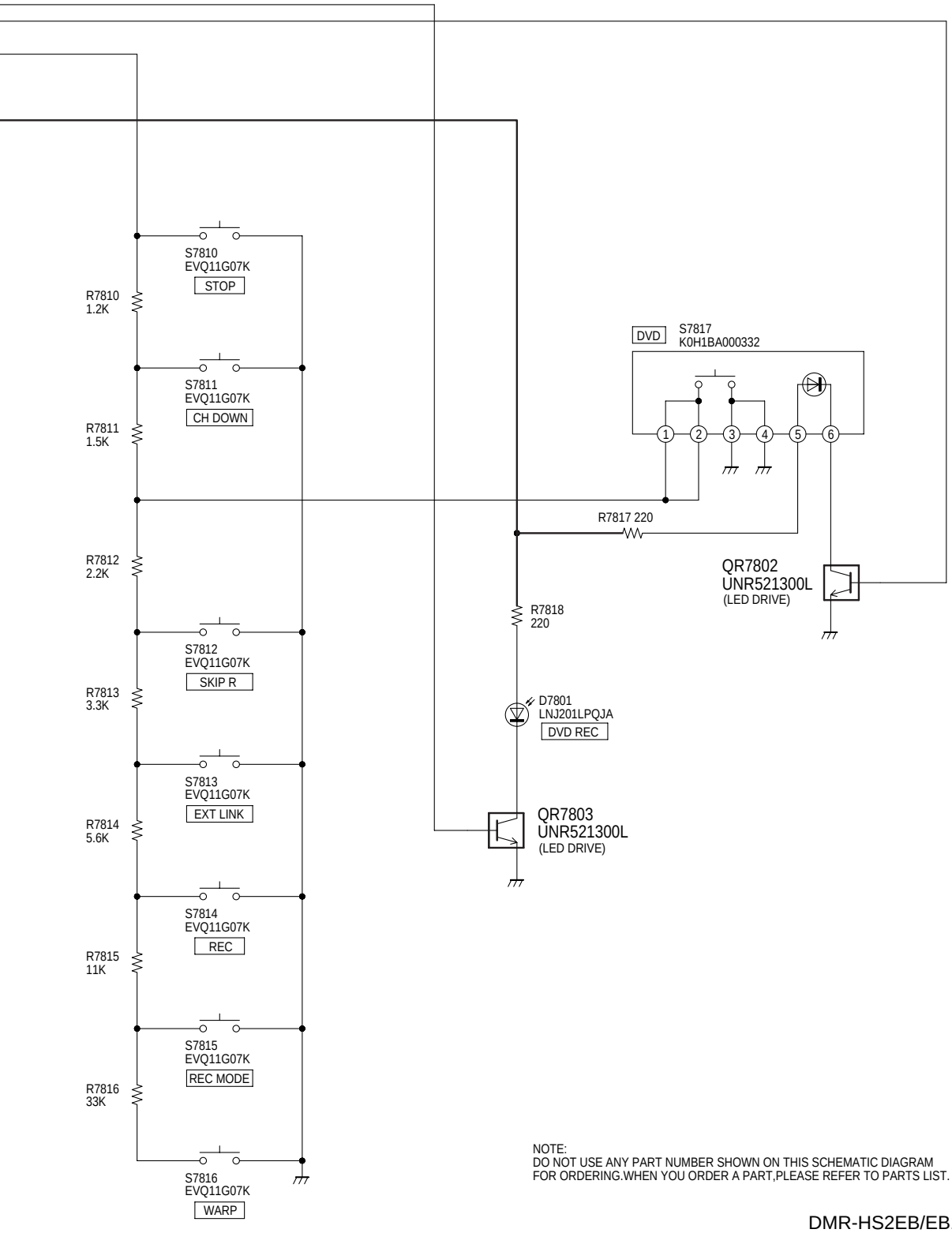
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
Nicam/Decoder Schematic Diagram

5 | 6 | 7 | 8

15.21. Front (R) Schematic Diagram



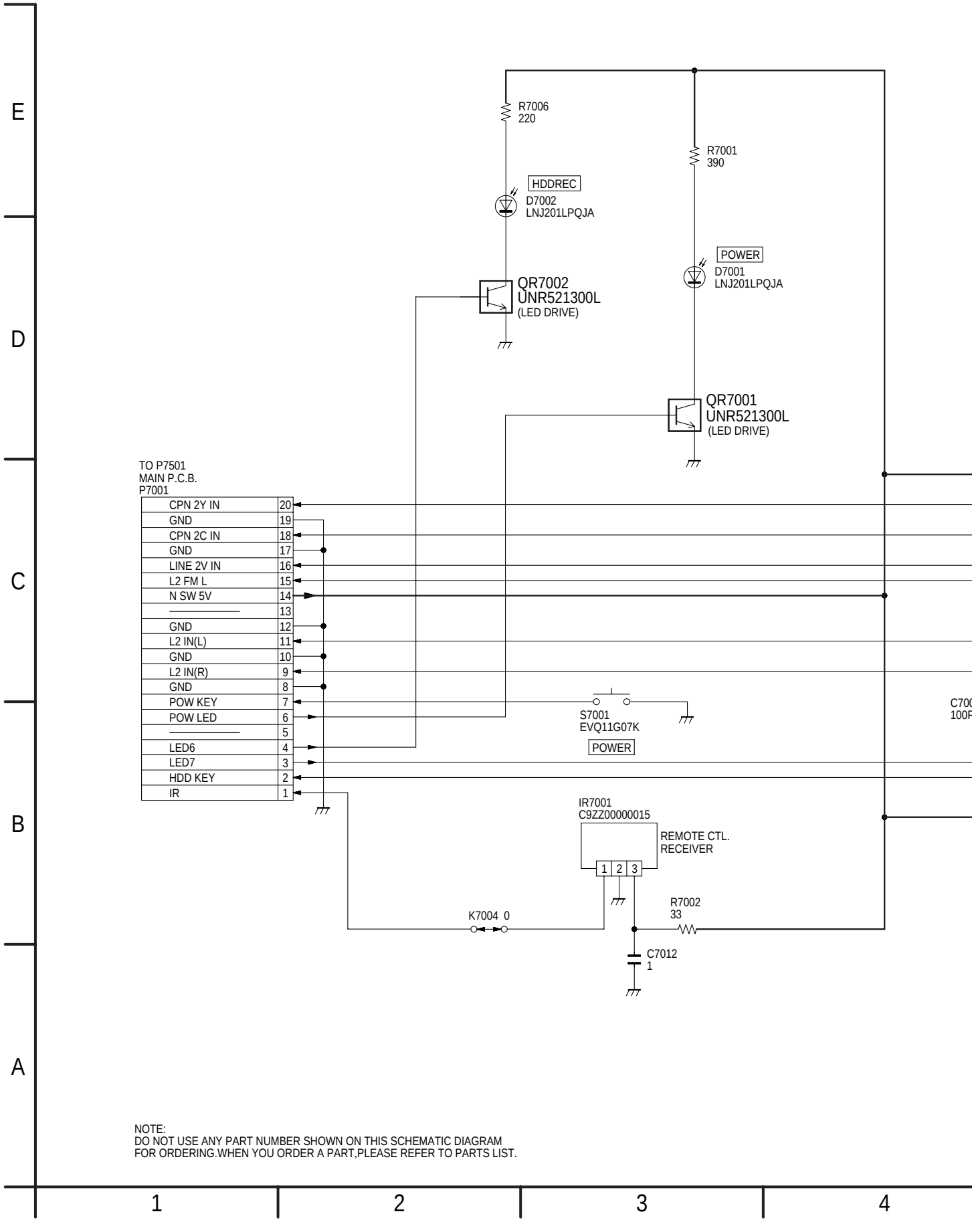


NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

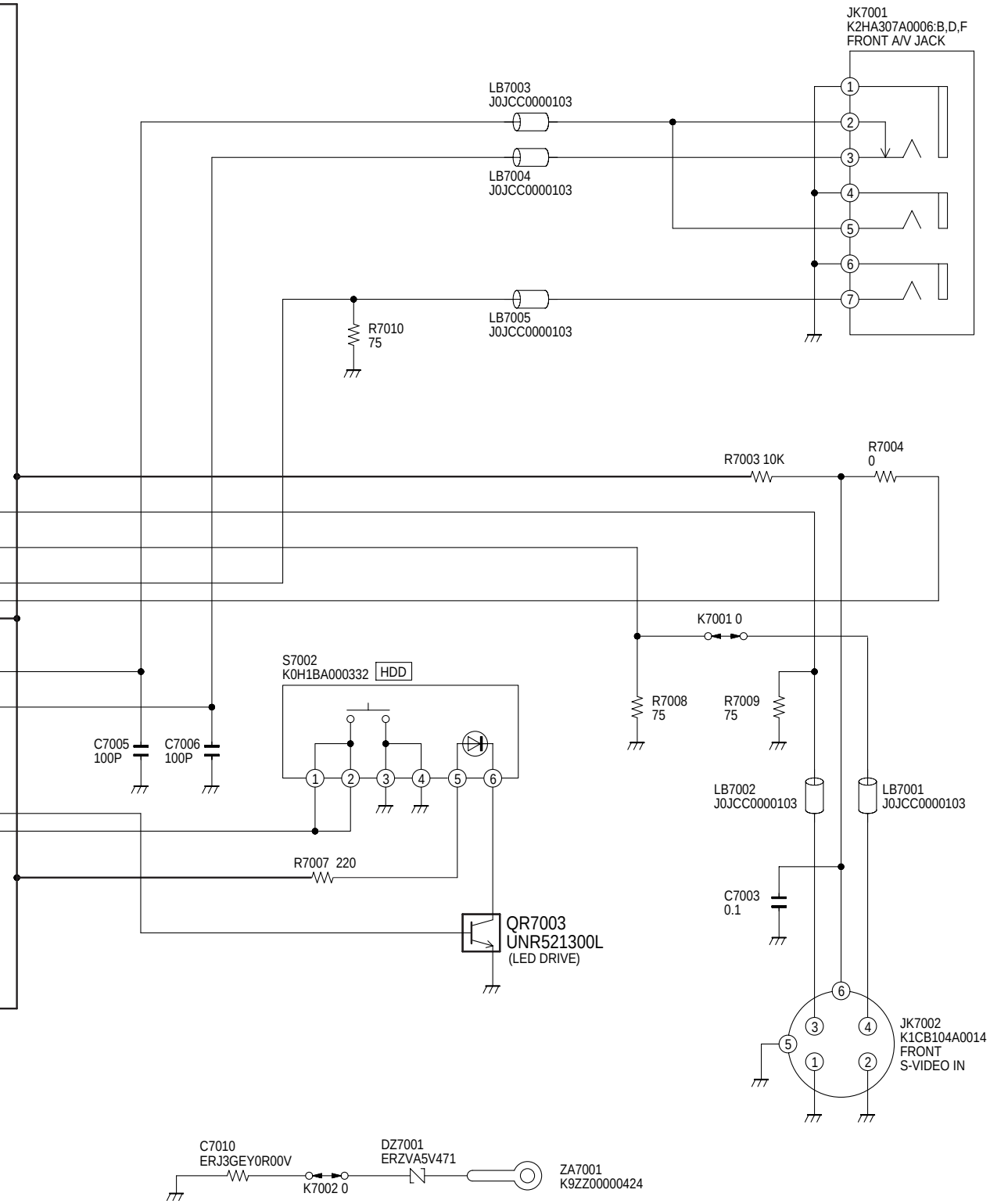
DMR-HS2EB/EB1/EG/EG1/GN
Front (R) Schematic Diagram

5 | 6 | 7 | 8

15.22. Front (L) Schematic Diagram



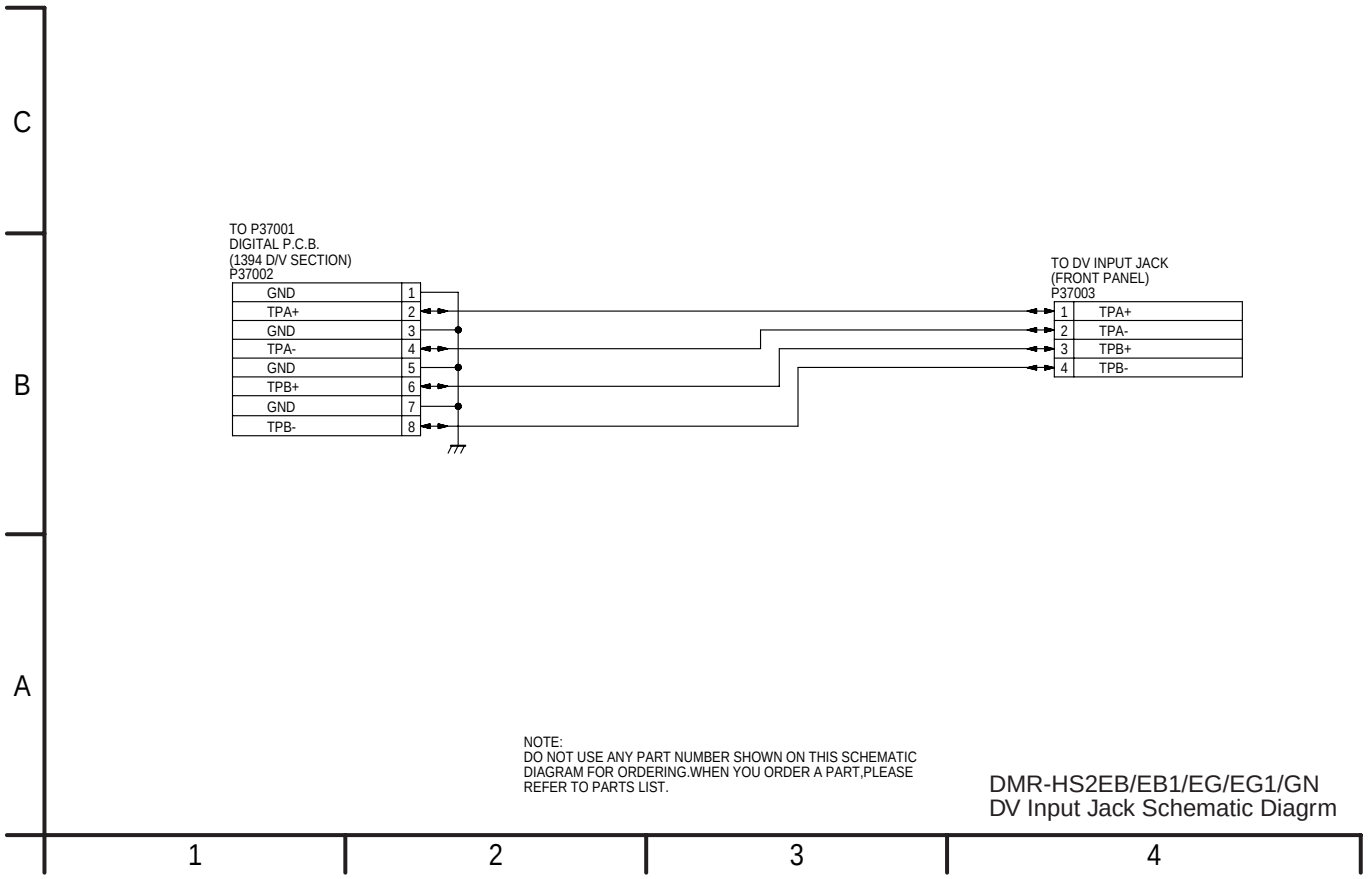
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.



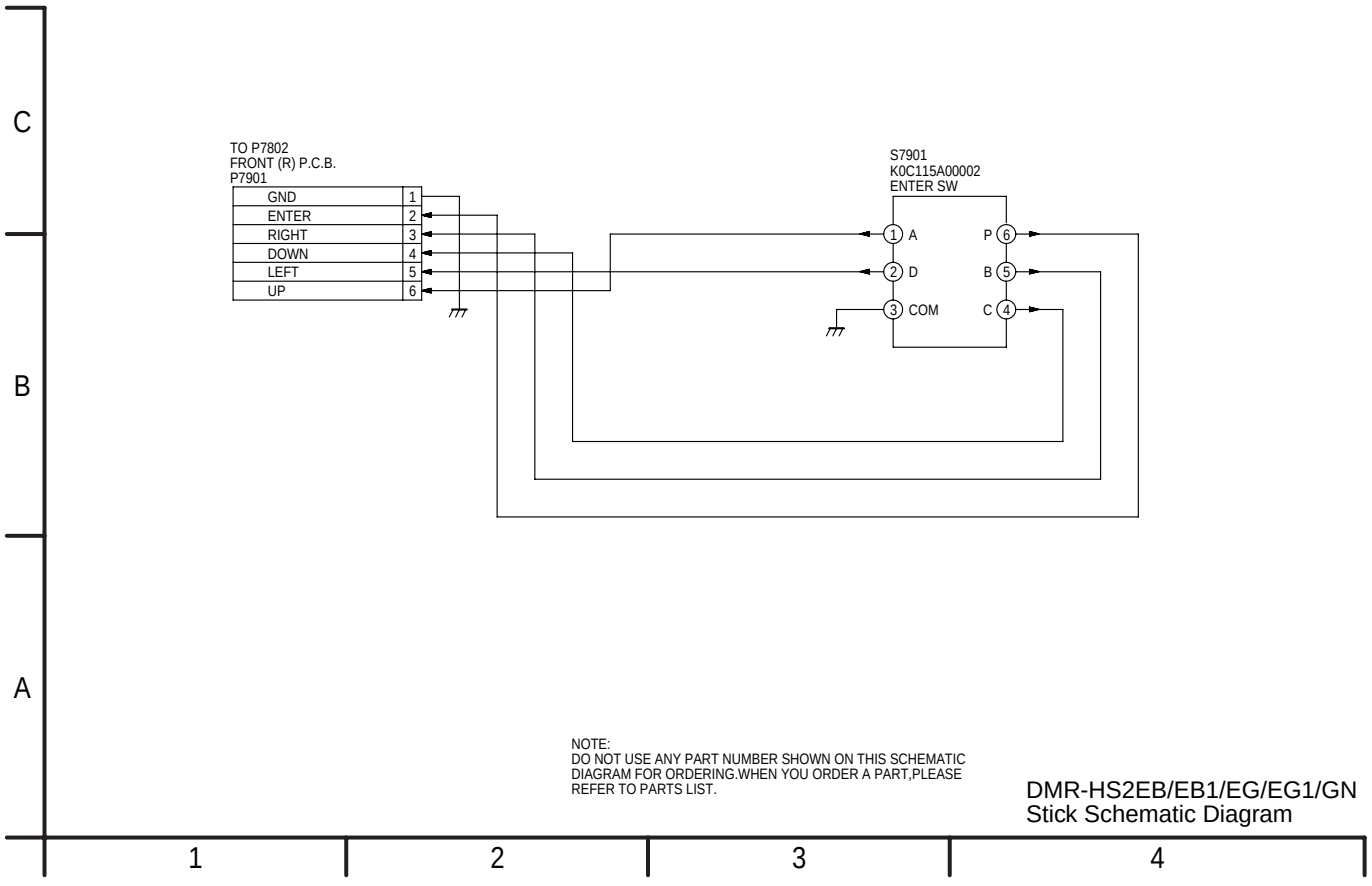
DMR-HS2EB/EB1/EG/EG1/GN
Front (L) Schematic Diagram

4	5	6	7

15.23. DV Input Jack Schematic Diagram



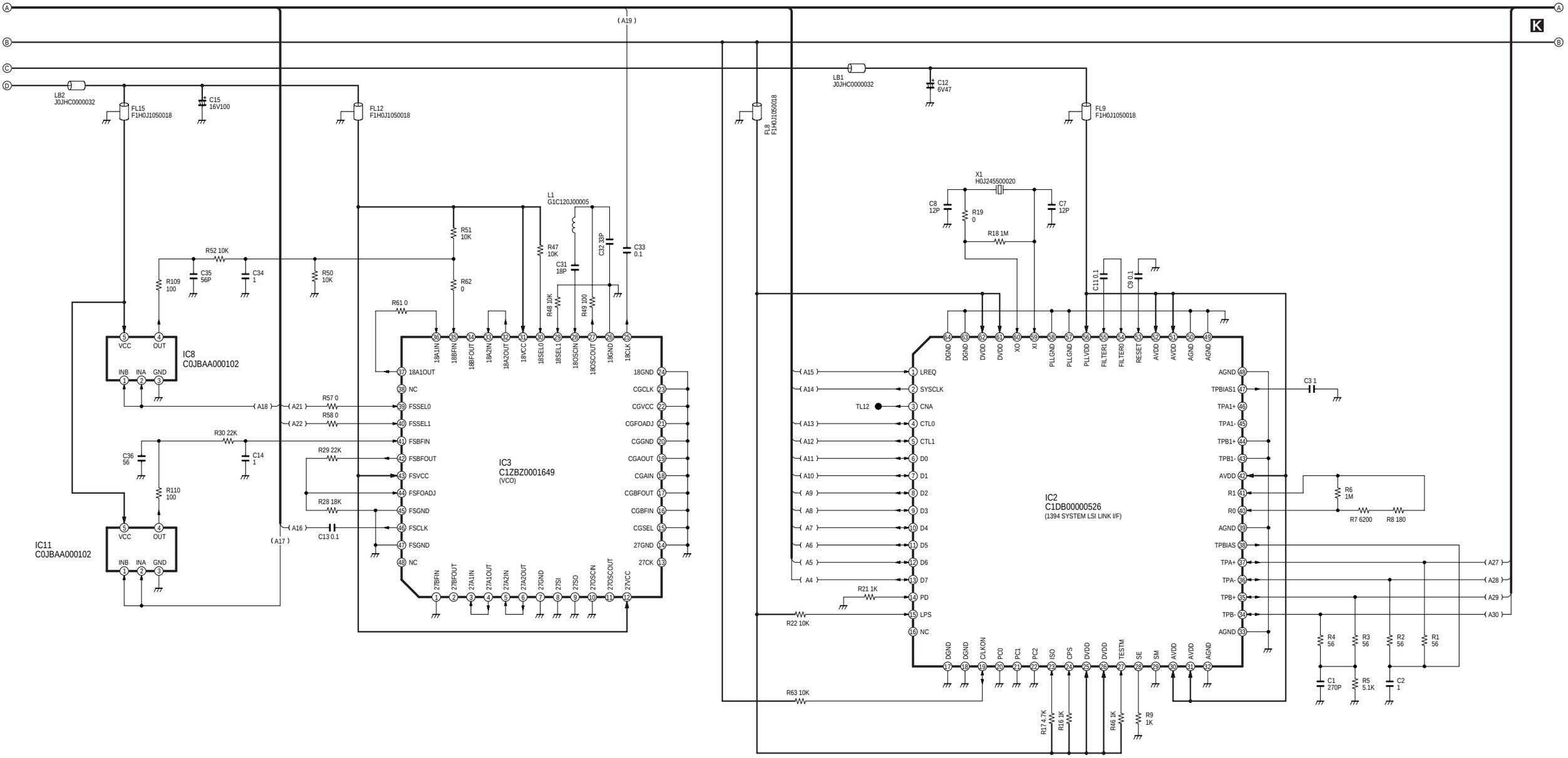
15.24. Stick Schematic Diagram

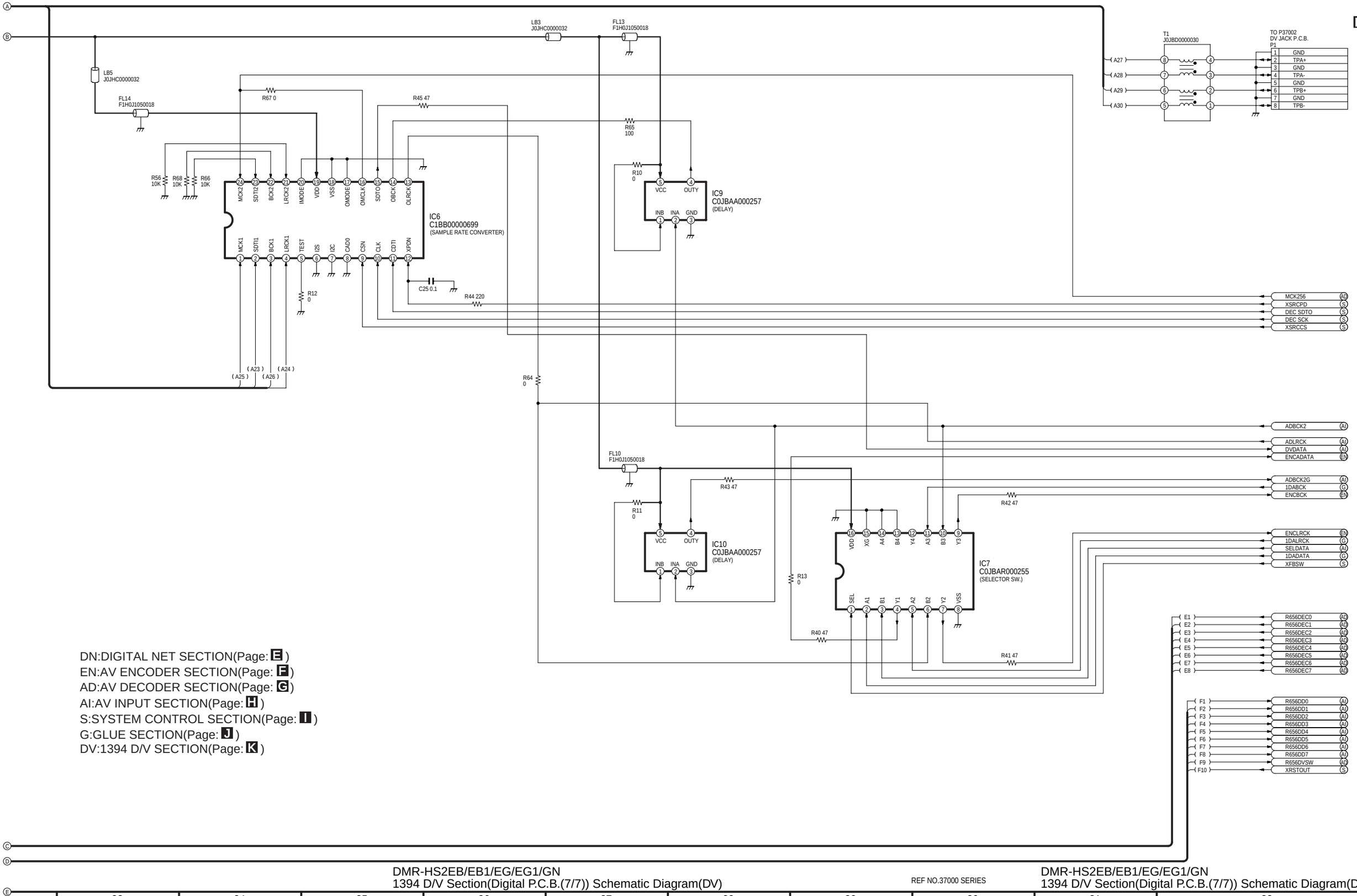


DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)

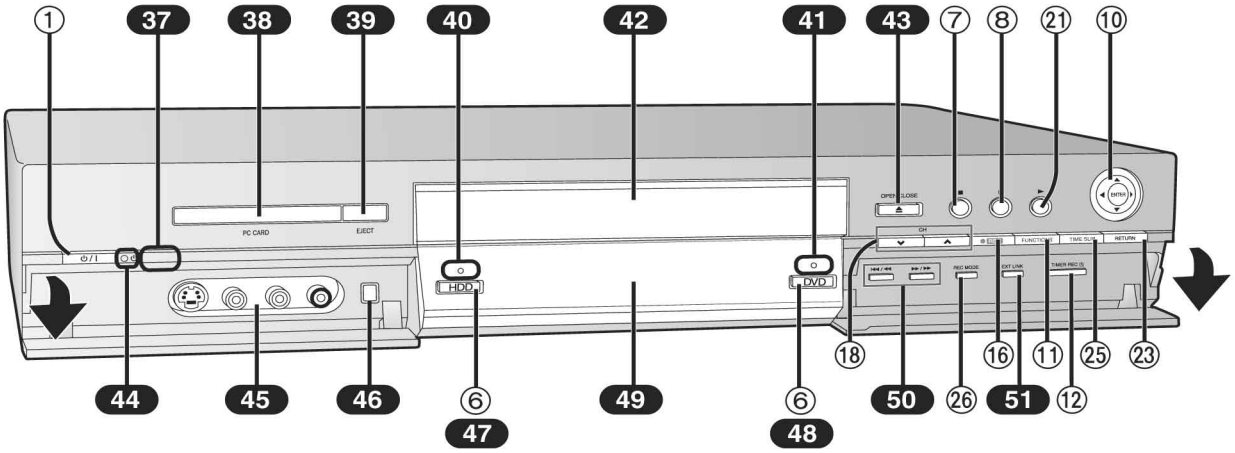
IC1
MN673745
(DV CODEC)

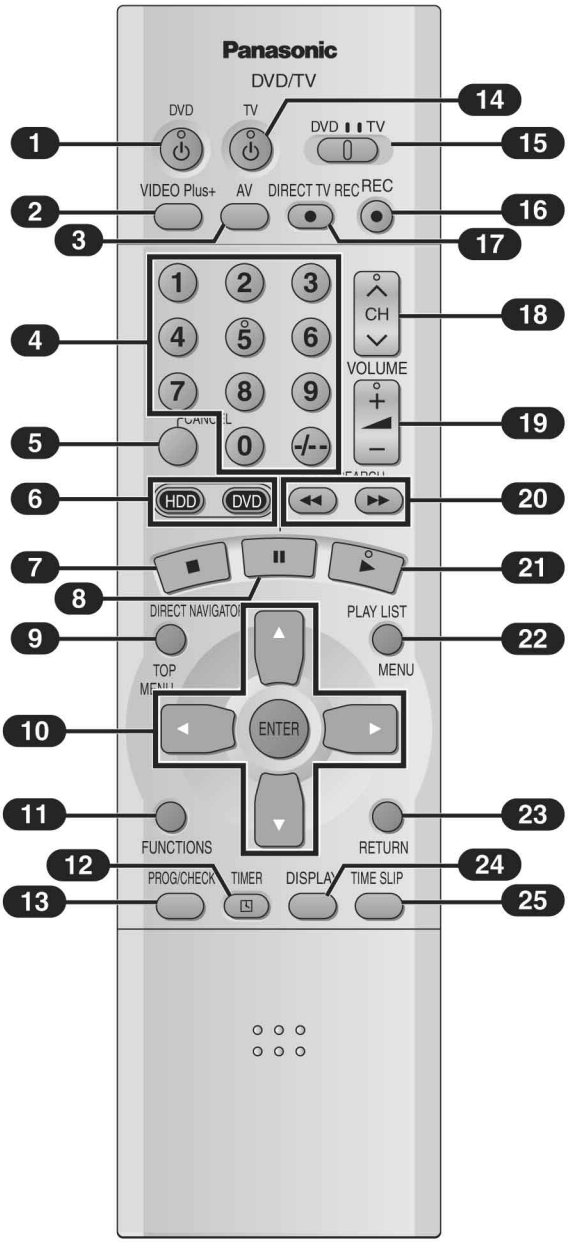
DMR-HS2EB/EB1/EG/EG1/GN
1394 D/V Section(Digital P.C.B.(7/7)) Schematic Diagram(DV)


LB2 J0JHC0000032
FL15 F1H0J1050018
C15 16V100
FL12 F1H0J1050018
FL8 F1H0J1050018
LB1 J0JHC0000032
C12 6V47
FL9 F1H0J1050018
X1 H0J245500020
C8 12P
R19 0
C7 12P
R18 1M
L1 G1C120J00005
R51 10K
R47 10K
C32 33P
C33 0.1
C31 18P
R52 10K
R109 100
C35 56P
C34 1
R50 10K
R62 0
R48 10K
R49 100
R61 0
C11 0.1
C9 0.1
IC8 C0JBAA000102
VCC OUT INB INA GND
IC11 C0JBAA000102
IC3 C1ZBZ0001649 (VCO)
18A1IN 18BFIN 18BFOUT 18A2IN 18A2OUT 18VCC 18SEL0 18SEL1 18OSCIN 18OSCOUT 18GND 18CLK
18A1OUT NC FSSEL0 FSSEL1 FSBFIN FSBFOUT FSVCC FSFOADJ FSGND FSCLK FSGND NC
18GND CGCLK CGVCC CGFOADJ CGGND CGAOUT CGAIN CGBFOUT CGBFIN CGSEL 27GND 27CK
27BFIN 27BFOUT 27A1IN 27A1OUT 27A2IN 27A2OUT 27GND 27SI 27SO 27OSCIN 27OSCOUT 27VCC
R57 0
R58 0
R30 22K
R29 22K
R28 18K
C36 56
C14 1
R110 100
C13 0.1
IC2 C1DB00000526 (1394 SYSTEM LSI LINK I/F)
LREQ SYSCLK CNA CTL0 CTL1 D0 D1 D2 D3 D4 D5 D6 D7 PD LPS NC
DGND DGND DVDD DVDD XO XI PLLGND PLLGND PLLVDD FILTER1 FILTER0 RESET AVDD AVDD AGND AGND
DGND DGND CLKON PC0 PC1 PC2 ISO CPS DVDD DVDD TESTM SE SM AVDD AVDD AGND
AGND TPBIAS1 TPA1+ TPA1- TPB1+ TPB1- AVDD R1 R0 AGND TPBIAS TPA+ TPA- TPB+ TPB- AGND
C3 1
R6 1M
R7 6200
R8 180
R4 56
R3 56
R2 56
R1 56
C1 270P
R5 5.1K
C2 1
R21 1K
R22 10K
R63 10K
R17 4.7K
R16 1K
R46 1K
R9 1K
TL12
A15 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4
A18 A21 A22 A16 A17 A19 A27 A28 A29 A30

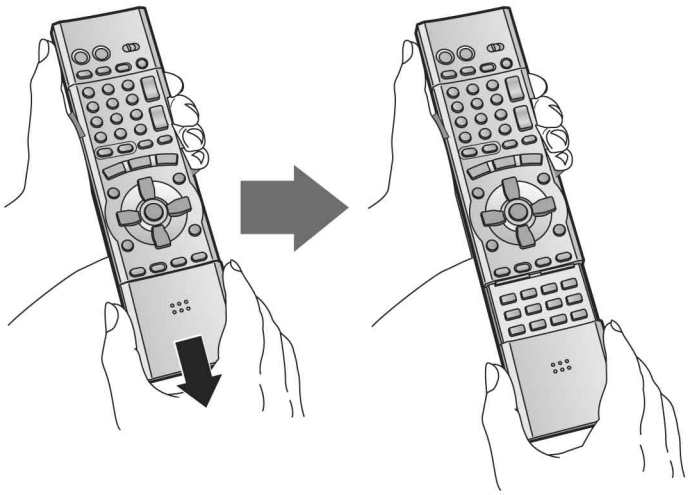


DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)

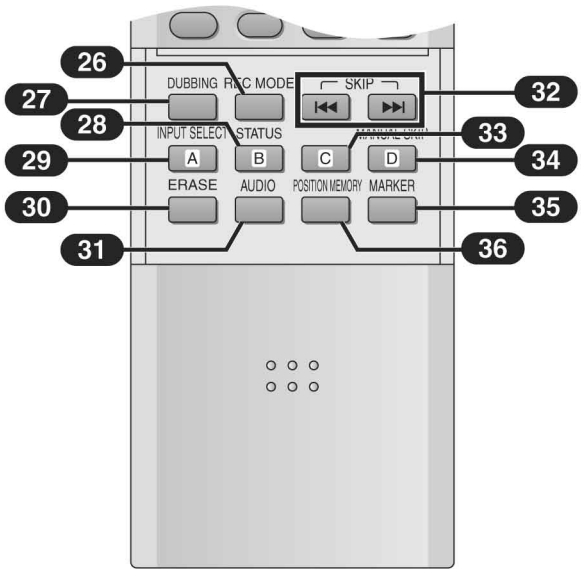




How to open the remote control



Hold both sides of the remote control's cover to open it. (You can also open it by pressing on the center of it and sliding it down.)



Remote control

1 DVD on/off button (⏻, DVD)
- To switch the unit from on to standby mode or vice versa. In the standby mode, the unit is still connected to the mains.
- In standby mode, the unit is still consuming a small amount of power.

2 VIDEO Plus+ button (VIDEO Plus+)

3 Television input mode selector (AV)

4 Numeric buttons (0–9, – /– –)
- When selecting a title, chapter, track, programme, or play list
  For the HDD:
  Example: “5”:[0] →[0] →[5]
  Example: “15”:[0] →[1] →[5]
  For the disc:
  Example: “5”: [0] →[5]
  Example: “15”: [1] →[5]
- When selecting a page of play list scene
  Example: “5”: [0] →[0] →[5]
  Example: “15”: [0] →[1] →[5]
- When selecting a television channel
  Example: “5”: [5]
  Example: “15”: [-/--] →[1] →[5]
- When selecting a folder of still picture (JPEG)
  When selecting a page of Album (JPEG)
  Example: “5”: [0] →[0] →[5]
  Example: “15”: [0] →[1] →[5]

5 Cancel button (CANCEL)

6 HDD/DVD button (HDD, DVD)

7 Stop button (■)

8 Pause button (❚❚)

9 Top menu and Direct Navigator button (TOP MENU, DIRECT NAVIGATOR)

10 Cursor buttons (▲, ▼, ◄, ►)/ Enter button (ENTER)

11 Function button (FUNCTIONS)

12 Timer recording button (◷, TIMER)

13 Manual programming and check button (PROG/CHECK)

14 TV on/off button (⏻, TV)

15 DVD/TV switch (DVD, TV)

16 Recording button (●, REC)

17 Direct TV recording button (●, DIRECT TV REC)

18 Channel up/down buttons (∧, ∨, CH)

19 TV volume up/down buttons (+, –, VOLUME)

20 Slow/Search buttons (◄◄, ►►, SLOW/SEARCH)

21 Play button (►)

22 Menu and Play List button (MENU, PLAY LIST)

23 Return button (RETURN)

24 Display button (DISPLAY)

25 Time slip button (TIME SLIP)

26 Recording mode button (REC MODE)

27 Dubbing button (DUBBING)

28 Status display button (STATUS)

29 Input select button (INPUT SELECT)

30 Erase button (ERASE)

31 Audio button (AUDIO)

32 Skip buttons (|◄◄, ►►|, SKIP)

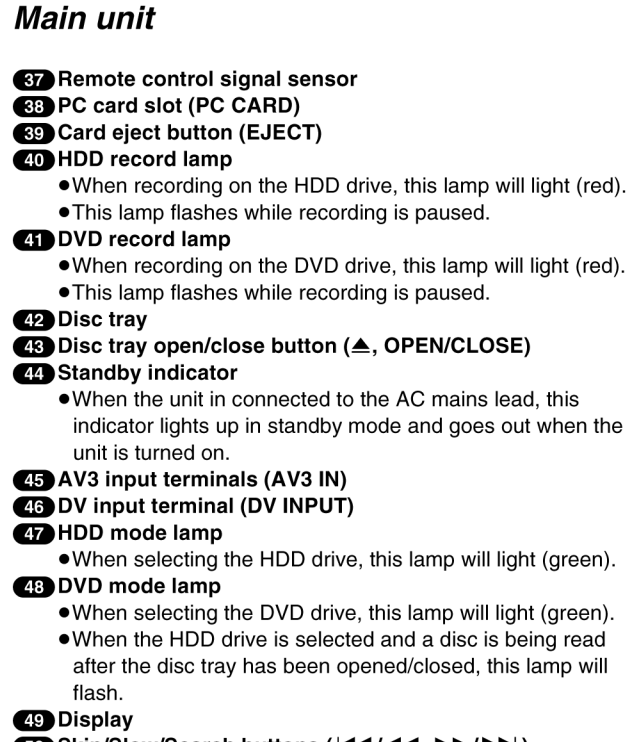
33 [C] button

34 Manual skip button (MANUAL SKIP)

35 Marker button (MARKER)

36 Position memory button (POSITION MEMORY)

Main unit



37 Remote control signal sensor

38 PC card slot (PC CARD)

39 Card eject button (EJECT)

40 HDD record lamp
- When recording on the HDD drive, this lamp will light (red).
- This lamp flashes while recording is paused.

41 DVD record lamp
- When recording on the DVD drive, this lamp will light (red).
- This lamp flashes while recording is paused.

42 Disc tray

43 Disc tray open/close button (⏏, OPEN/CLOSE)

44 Standby indicator
- When the unit in connected to the AC mains lead, this indicator lights up in standby mode and goes out when the unit is turned on.

45 AV3 input terminals (AV3 IN)

46 DV input terminal (DV INPUT)

47 HDD mode lamp
- When selecting the HDD drive, this lamp will light (green).

48 DVD mode lamp
- When selecting the DVD drive, this lamp will light (green).
- When the HDD drive is selected and a disc is being read after the disc tray has been opened/closed, this lamp will flash.

49 Display

50 Skip/Slow/Search buttons (|◄◄/◄◄, ►►/►►|)

51 External link button (EXT LINK)

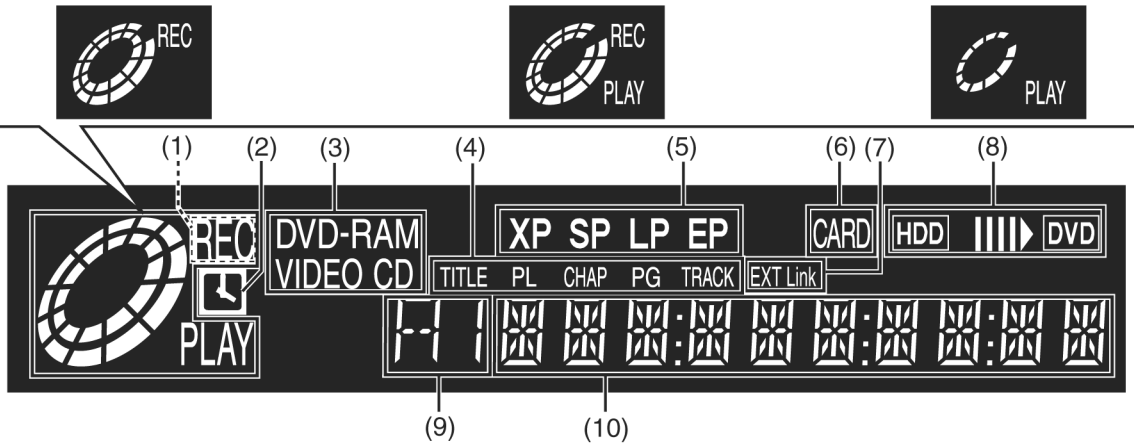
Buttons such as ① function the same as the controls on the remote control.

The unit's display

Rotating (REC): recording
Stopped (REC): recording paused

Rotating (REC, PLAY):
Chasing play, Simultaneously recording and play or Time Slip is in progress

Rotating (PLAY): playing
Stopped (PLAY): play paused



(1) Recording indicator (REC)
On:
when recording on the currently selected drive

(2) Timer programme display
On:
when a programme for timer recording is on
Flashes:
when there are less than 10 minutes to go before timer recording is programmed, but the unit is not on standby.

(3) Disc type
DVD-RAM: DVD-RAM
DVD-R: DVD-R
DVD VIDEO: DVD-Video
VIDEO CD: Video CD
CD: Audio CD

(4) The display mode of the main display section
TITLE: title number
TRACK: track number
CHAP: chapter number
PG: programme number
PL: play list number

(5) Recording mode
XP: High-quality mode
SP: Normal mode
LP: Long play mode
EP: Long play mode
XP SP LP EP (all on)**:**
FR mode (in flexible recording or in timer recording)

(6) Card indicator
On:
when a PC card is set in the unit.
Flashes:
when a PC card is inserted
when a PC card is being read/written to

(7) External link display
On:
when a linked timer recording with external equipment is in standby mode, or being performed.

(8) Dubbing direction indicator (page 61)

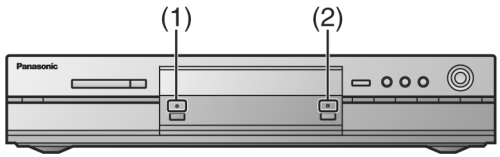
(9) Channel
1, 2, 3, ..., 99 / A1, A2, A3, A4 / DV

(10)Main display section
Recording and play counter/ Remaining recording time/ PG (recorded programme on the HDD/DVD-RAM)/ Title etc. of the currently selected drive (HDD/DVD)
- Remaining recording time:
  (For example)
  1 hour→Displayed as "R 1:00"

timer recording
Current time
Track, chapter
Miscellaneous messages
etc.

Note
- A half mirror is used for the unit display so the display may occasionally be difficult to see depending on surrounding conditions.
- When the power is off and the unit is carrying out a timer recording, the ⏲ of the unit's display and HDD/DVD record lamp 40 41 light.

Regarding the HDD/DVD record lamp



(1) HDD record lamp 40
(2) DVD record lamp 41

When recording on the HDD drive, the HDD record lamp 40 will light (red).
When recording on the DVD drive, the DVD record lamp 41 will light (red).

PC Cards capable of displaying and saving

Available memory card in this unit

- SD Memory Card*
- MultiMediaCard*
- Compact Flash*
- Smart Media*
- Memory Stick*
- ATA Flash PC card

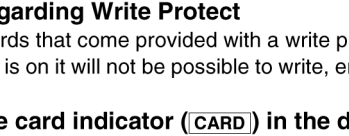
* A PC Card adapter conforming to PC Card standards is necessary.

- **Compatible with:** FAT 12 or FAT 16
- This unit is compatible with Type 2 PC cards. Do not insert any other type of PC card.
- This unit is not compatible with card type hard disks (Micro drives etc).
- Use this unit to format a PC Card when using for the first time. Note that the PC Card may no longer be usable on other equipment once formatted on this unit.
- This unit operates in accordance with the Digital Print Order Format. (PC card only)
- Only use the memory cards recommended above.

■Regarding Write Protect

For cards that come provided with a write protect switch, if the switch is on it will not be possible to write, erase or format the card.

■The card indicator (CARD) in the display



(1) Card indicator

To prevent the damage to the card memory, carry out insertion and removal of the PC card after turning the unit off.

The indicator (CARD) in this display flashes when the data is being written to or read from the card. Do not turn off the power or remove the card at such a time. Should you do so, the unit may malfunction or the contents of the card may be damaged.

Still pictures (JPEG) that can be displayed/saved

- This unit is compatible with DCF[*1] based, still picture (JPEG) files recorded using a digital camera.

[*1] Design rule for Camera File system: unified standard established by Japan Electronics and Information Technology Industries Association (JEITA).

- This unit displays only still pictures conforming to DCF standards and JPEG still pictures. It cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (i.e. TIFF) or play associated sound.
- **Picture definition:**
  Compatible in the range 320 x 240 – 6144 x 4096
  (sub sampling is 4:2:2 or 4:2:0)
- This unit can handle a maximum of **300 folders** (including header folders) and **3,000 files**. Files and folders with numbers which exceed the maximum cannot be displayed, copied or erased.

Note

- When there are a lot of folders and files, it may take a long time to display, copy or erase.
- Folder titles that were input on equipment other than this unit may not be displayed properly.
- When saving still pictures on HDD, it is recommended that you copy them to the PC card or DVD-RAM also (page 65).

Folders that can be displayed/saved

Still pictures (denoted as Filename : xxxxxxxx.JPG) saved in folders ( ) as shown below can be displayed/saved.

Folders (including the still pictures inside those folders) below the compatible folder cannot be displayed or saved.

:Valid folder[*2]

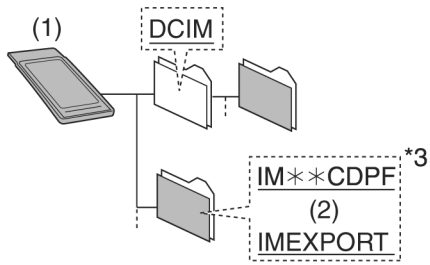
:Upper level folder

∗∗: Numbers
xx: Letters

[*2] **Valid folder:**
This term indicates a folder which is recognized by this unit and which contains still pictures the unit is capable of displaying.

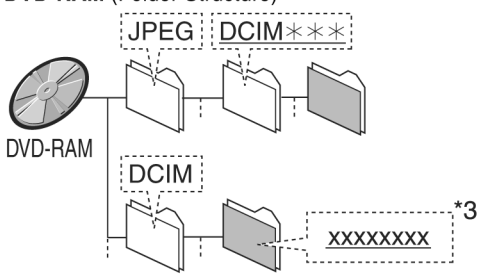
- Folders made on a computer will not be recognized by this unit. If using a computer produced folder, refer to the folder structure given below.

PC card (Folder Structure)



(1) PC card
(2) or

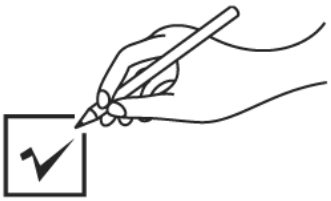
DVD-RAM (Folder Structure)



Note

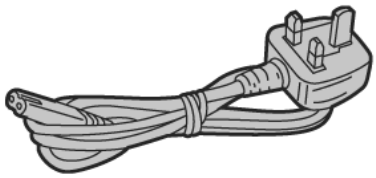
- You may select any underlined folder for display (page 63).
- Copying cannot be carried out to folders (*3) made on other equipment (page 65).
- The folder cannot be displayed if the numbers are all “0” (e.g., DCIM 000 etc).
- This unit may not be able to display some folder names you have created on a computer.

Check that you have the accessories shown

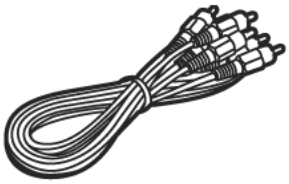


Tick off as you unpack the accessories.

☐ **AC Mains lead**

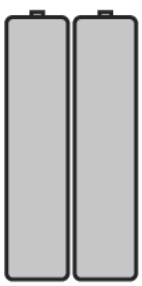


☐ **Audio Video Cable**
K2KA6CA00001



☐ **RF lead to connect the unit and TV**
K2KF2BA00001
or
K1TWACC00001

☐ **Batteries for the Remote Control**
R6 size



☐ **Remote Control**

☐ **Cleaning cloth**
RFE0088-1

For cleaning the mirror section on the front of the unit.

☐ **Guarantee Card**

☐ **Quick Start Guide**

1.PS+12V

Ref. No.	Pin. No.	Circuit Name
IC3901	14	Scart P.C.B.

2. REG.+12V

Ref. No.	Pin. No.	Circuit Name
IC7503	9	Timer (Main)
IC7601	8	Main Net (Main)

3. REG. AU+12V

Ref. No.	Pin. No.	Circuit Name
IC4002	16	Audio Main (Main)
IC4003	8	
IC4008	8	
IC4009	8	
IC4012	8	
IC4501	5	

4. BOOSTER.+5V

Ref. No.	Pin. No.	Circuit Name
IC3901	29	Scart P.C.B.

5. REG.+5V

Ref. No.	Pin. No.	Circuit Name
IC3501	11,12	RGB P.C.B.
IC3509	5	

6. REG. PS+5V

Ref. No.	Pin. No.	Circuit Name
IC3901	24	Scart P.C.B.
IC3502,3503	16	RGB P.C.B.
IC3506,3507	16	
IC3508	6,11	

7. REG. T PS+5V

Ref. No.	Pin. No.	Circuit Name
IC7501	19,60	Timer (Main)

8. REG. JC+5V

Ref. No.	Pin. No.	Circuit Name
IC3001	3	Video I/O (Main)
IC3006	1	

9. X SW+5V

Ref. No.	Pin. No.	Circuit Name
IC7502	15,34,69,105	Timer (Main)
	106,108,112	
IC7504	1	
IC7506	8	
IC7508	5	

10. D+3.3V

Ref. No.	Pin. No.	Circuit Name
IC6801	8	PC CARD P.C.B.
IC7505	2	Timer (Main)

11. D+5V

Ref. No.	Pin. No.	Circuit Name
IC4004	17	Audio Main (Main)
IC4005	8	
IC4006	2	
IC4007	1,5	

12. AU+5V

Ref. No.	Pin. No.	Circuit Name
IC4404	8	AV Input (Digital)
IC4405	4,5	
IC50010	6	AV DEC. (Digital)

13. DAC+3.3V

Ref. No.	Pin. No.	Circuit Name
IC4405	14	AV Input (Digital)
IC50010	5	AV DEC. (Digital)

14. ANA+5V

Ref. No.	Pin. No.	Circuit Name
IC3202	5	AV Input (Digital)

15. D+1.8V

Ref. No.	Pin. No.	Circuit Name
IC3203	39,64	AV Input (Digital)
	88,109	
	131,156	
IC3402	7,19,32	AV ENC. (Digital)
	44,59,71	
	84,96,111	
	123,136,148	
	163,175	
	188,198	
IC3405	26,78	
	138,193	
IC37001	17,47,64,81	1394 D/V (Digital)
	92,126,133	
	146,179,212	

16. D+1.5V

Ref. No.	Pin. No.	Circuit Name
IC50003	12,30,48	AV DEC. (Digital)
	69,98,127	
	135,172,186	

17. SD+1.8V

Ref. No.	Pin. No.	Circuit Name
IC6005	18,46,66	Syscon (Digital)
	94,106,163	
	184,220,238	

18. D+3.3V

Ref. No.	Pin. No.	Circuit Name
IC3201	1,7,13	AV Input (Digital)
	25,34,38,44	
IC4406	5	
IC4407	5	
IC4408	8	
IC4409	15,30	
IC4410	5	
IC3203	31,38,45	AV Input (Digital)
	52,58,65	
	71,78,84	
	91,108,119	
	130,137,145	
	159,166,179	
IC3401	1,3,9	AV ENC. (Digital)
	15,29,35	
	41,43,49	
	55,75,81	
IC3402	4,14,22,34	
	46,50,57	
	66,75,83	
	91,100,110	
	118,126,132	
	139,145,152	
	160,167,172	
	181,185,192	
	199,202,205	
IC3403	1,3,9	
	14,27,43,49	
IC3404	1,3,9	
	14,27,43,49	
IC3405	7,15,31	
	43,64,81	
	90,100,108	
	117,131,146	
	156,168,178	
	192,208	
IC50001	1,11	AV DEC. (Digital)
	14,19	
IC50002	1,3,9,14	
	27,43,49	
IC50004	1,3,9,14	
	27,43,49	
IC50003	5,15,26	
	39,52,58	
	66,75,89	
	103,131,144	
	152,157,165	
	175,184	
	194,203	
IC50005	5	
IC50006	5	
IC50009	6,10,12	
IC50012	20	
IC50013	5	
IC50014	14	

18. D+3.3V

Ref. No.	Pin. No.	Circuit Name
IC6001, IC6008	1,3,9,14 27,43,49	Syscon (Digital)
IC6002, IC6003	7,18 31,42	
IC6005	22,27,47	
	61,82,102	
	115,162,174	
	216,221,226	
	239,248	
IC6007	23	
IC6701	1,20,40,81	GLUE (Digital)
	100,120	
IC6702	5	
IC6703	8,30	
IC6705	7,18,31,42	
IC6706	23,24	
IC6707	12,37	
IC6708	5	
IC37001	10,19,29,37	1394 D/V (Digital)
	43,50,56,69	
	76,87,91,108	
	118,132,141	
	153,171,183	
	190,197,207	
	,216	
IC37002	25,26,61,62	
IC37006	19	
IC37009	5	
IC37007	16	
IC37010	5	

19. ANA+3.3V

Ref. No.	Pin. No.	Circuit Name
IC3202	10	AV Input (Digital)
IC3203	2,4,11,12	
	14,21,26,30	
IC50003	105,112,118	AV DEC. (Digital)
IC3402	30	AV ENC. (Digital)
IC37002	30,31,42	1394 D/V (Digital)
	51,52,56	

20. D+5V

Ref. No.	Pin. No.	Circuit Name
IC6706	1	GLUE (Digital)
IC50015	1,3	AV DEC. (Digital)

21. X SW+15.5V

Ref. No.	Pin. No.	Circuit Name
IC7507	8	Timer (Main)

22. AU+9V

Ref. No.	Pin. No.	Circuit Name
IC4004	13,31	Audio Main (Main)

23. D+5V

Ref. No.	Pin. No.	Circuit Name
IC6802	10,15,47	PC CARD P.C.B.
IC6803	7,18,31,42	
IC6804	5	
IC6805	8	
IC6807	8	

24. D+3V

Ref. No.	Pin. No.	Circuit Name
IC37003	12,31,43	1394 D/V (Digital)
IC37008	5	
IC37011	5	

TC	IC3203/VAD CON		SIGNAL NAME	IC3402/AV ENC	
	Port Name	Pin No		Pin No	Port Name
1	R656OUT0	141	R656ENC0	17	VIN0
	R656OUT1	140	R656ENC1	18	VIN1
	R656OUT2	139	R656ENC2	20	VIN2
	R656OUT3	138	R656ENC3	21	VIN3
	R656OUT4	135	R656ENC4	23	VIN4
	R656OUT5	134	R656ENC5	24	VIN5
	R656OUT6	133	R656ENC6	25	VIN6
	R656OUT7	132	R656ENC7	26	VIN7

TC	IC3402/AV ENC		SIGNAL NAME	IC3405/RTSC	
	Port Name	Pin No		Pin No	Port Name
2	CDO0	63	CDO0	16	EC1DT0
	CDO1	64	CDO1	17	EC1DT1
	CDO2	65	CDO2	18	EC1DT2
	CDO3	67	CDO3	19	EC1DT3
	CDO4	68	CDO4	20	EC1DT4
	CDO5	69	CDO5	21	EC1DT5
	CDO6	72	CDO6	22	EC1DT6
	CDO7	73	CDO7	23	EC1DT7

TC	IC3405/RTSC		SIGNAL NAME	P3401 (DVD RAM)	
	Port Name	Pin No		Pin No	Port Name
3	S1DB0	165	RAMD0	17	DD0
	S1DB1	167	RAMD1	15	DD1
	S1DB2	170	RAMD2	13	DD2
	S1DB3	172	RAMD3	11	DD3
	S1DB4	175	RAMD4	9	DD4
	S1DB5	177	RAMD5	7	DD5
	S1DB6	180	RAMD6	5	DD6
	S1DB7	182	RAMD7	3	DD7
	S1DB8	181	RAMD8	4	DD8
	S1DB9	179	RAMD9	6	DD9
	S1DB10	176	RAMD10	8	DD10
	S1DB11	174	RAMD11	10	DD11
	S1DB12	171	RAMD12	12	DD12
	S1DB13	169	RAMD13	14	DD13
	S1DB14	166	RAMD14	16	DD14
	S1DB15	164	RAMD15	18	DD15

TC	IC3203/VAD CON		SIGNAL NAME	IC3201/SDRAM	
	Port Name	Pin No		Pin No	Port Name
4	M0DT0	63	DT0	2	DQ0
	M0DT1	62	DT1	3	DQ1
	M0DT2	60	DT2	5	DQ2
	M0DT3	59	DT3	6	DQ3
	M0DT4	57	DT4	8	DQ4
	M0DT5	56	DT5	9	DQ5
	M0DT6	54	DT6	11	DQ6
	M0DT7	53	DT7	12	DQ7
	M0DT8	50	DT8	39	DQ8
	M0DT9	49	DT9	40	DQ9
	M0DT10	47	DT10	42	DQ10
	M0DT11	46	DT11	43	DQ11
	M0DT12	44	DT12	45	DQ12
	M0DT13	43	DT13	46	DQ13
	M0DT14	41	DT14	48	DQ14
	M0DT15	40	DT15	49	DQ15
	M0AD0	83	AD0	21	A0
	M0AD1	82	AD1	22	A1
	M0AD2	80	AD2	23	A2
	M0AD3	79	AD3	24	A3
	M0AD4	76	AD4	27	A4
	M0AD5	75	AD5	28	A5
	M0AD6	73	AD6	29	A6
	M0AD7	72	AD7	30	A7
	M0AD8	70	AD8	31	A8
	M0AD9	69	AD9	32	A9
	M0AP	67	AD10	20	A10
	M0BA	66	AD11	19	A11

TC	IC3402/AV ENC		SIGNAL NAME	IC3401/SDRAM	
	Port Name	Pin No		Pin No	Port Name
5	MDQ0	124	MDQA0	2	DQ0
	MDQ1	125	MDQA1	4	DQ1
	MDQ2	127	MDQA2	5	DQ2
	MDQ3	128	MDQA3	7	DQ3
	MDQ4	130	MDQA4	8	DQ4
	MDQ5	131	MDQA5	10	DQ5
	MDQ6	133	MDQA6	11	DQ6
	MDQ7	134	MDQA7	13	DQ7
	MDQ8	137	MDQA8	74	DQ8
	MDQ9	138	MDQA9	76	DQ9
	MDQ10	140	MDQA10	77	DQ10
	MDQ11	141	MDQA11	79	DQ11
	MDQ12	143	MDQA12	80	DQ12
	MDQ13	144	MDQA13	82	DQ13
	MDQ14	146	MDQA14	83	DQ14
	MDQ15	147	MDQA15	85	DQ15
	MDQ16	150	MDQA16	31	DQ16
	MDQ17	151	MDQA17	33	DQ17
	MDQ18	153	MDQA18	34	DQ18
	MDQ19	154	MDQA19	36	DQ19
	MDQ20	158	MDQA20	37	DQ20
	MDQ21	159	MDQA21	39	DQ21
	MDQ22	161	MDQA22	40	DQ22
	MDQ23	162	MDQA23	42	DQ23
	MDQ24	165	MDQA24	45	DQ24
	MDQ25	166	MDQA25	47	DQ25
	MDQ26	168	MDQA26	48	DQ26
	MDQ27	169	MDQA27	50	DQ27
	MDQ28	186	MDQA28	51	DQ28
	MDQ29	187	MDQA29	53	DQ29
	MDQ30	190	MDQA30	54	DQ30
	MDQ31	191	MDQA31	56	DQ31

TC	IC3405/RTSC		SIGNAL NAME	IC3403,IC3404/SDRAM	
	Port Name	Pin No		Pin No	Port Name
6	MDQ0	184	MADQ80	2	DQ0
	MDQ1	186	MADQ81	4	DQ1
	MDQ2	188	MADQ82	5	DQ2
	MDQ3	191	MADQ83	7	DQ3
	MDQ4	195	MADQ84	8	DQ4
	MDQ5	197	MADQ85	10	DQ5
	MDQ6	199	MADQ86	11	DQ6
	MDQ7	201	MADQ87	13	DQ7
	MDQ8	202	MADQ88	42	DQ8
	MDQ9	200	MADQ89	44	DQ9
	MDQ10	198	MADQ810	45	DQ10
	MDQ11	196	MADQ811	47	DQ11
	MDQ12	194	MADQ812	48	DQ12
	MDQ13	190	MADQ813	50	DQ13
	MDQ14	187	MADQ814	51	DQ14
	MDQ15	185	MADQ815	53	DQ15

TC	IC3203/VAD CON		SIGNAL NAME	IC50003/AV DEC	
	Port Name	Pin No		Pin No	Port Name
7	R656OUT0	141	R656ENC0	138	VDIN0
	R656OUT1	140	R656ENC1	137	VDIN1
	R656OUT2	139	R656ENC2	136	VDIN2
	R656OUT3	138	R656ENC3	134	VDIN3
	R656OUT4	135	R656ENC4	133	VDIN4
	R656OUT5	134	R656ENC5	132	VDIN5
	R656OUT6	133	R656ENC6	130	VDIN6
	R656OUT7	132	R656ENC7	129	VDIN7

TC	IC50003/AV DEC		SIGNAL NAME	IC50002/SDRAM	
	Port Name	Pin No		Pin No	Port Name
8	MDQ0	17	DQ0	2	DQ0
	MDQ1	14	DQ1	4	DQ1
	MDQ2	11	DQ2	5	DQ2
	MDQ3	8	DQ3	7	DQ3
	MDQ4	6	DQ4	8	DQ4
	MDQ5	3	DQ5	10	DQ5
	MDQ6	207	DQ6	11	DQ6
	MDQ7	205	DQ7	13	DQ7
	MDQ8	206	DQ8	42	DQ8
	MDQ9	2	DQ9	44	DQ9
	MDQ10	4	DQ10	45	DQ10
	MDQ11	7	DQ11	47	DQ11
	MDQ12	9	DQ12	48	DQ12
	MDQ13	13	DQ13	50	DQ13
	MDQ14	16	DQ14	51	DQ14
	MDQ15	18	DQ15	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11

TC	IC50003/AV DEC		SIGNAL NAME	IC50004/SDRAM	
	Port Name	Pin No		Pin No	Port Name
9	MDQ16	171	DQ16	2	DQ0
	MDQ17	168	DQ17	4	DQ1
	MDQ18	166	DQ18	5	DQ2
	MDQ19	163	DQ19	7	DQ3
	MDQ20	160	DQ20	8	DQ4
	MDQ21	158	DQ21	10	DQ5
	MDQ22	154	DQ22	11	DQ6
	MDQ23	151	DQ23	13	DQ7
	MDQ24	150	DQ24	42	DQ8
	MDQ25	153	DQ25	44	DQ9
	MDQ26	155	DQ26	45	DQ10
	MDQ27	159	DQ27	47	DQ11
	MDQ28	162	DQ28	48	DQ12
	MDQ29	164	DQ29	50	DQ13
	MDQ30	167	DQ30	51	DQ14
	MDQ31	169	DQ31	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11

TC	IC3203/VAD CON		SIGNAL NAME	IC6002/BUFFER	
	Port Name	Pin No		Pin No	Port Name
10 | 1	MDA0	129	MSD16	47	1A1
	MDA1	128	MSD17	46	1A2
	MDA2	127	MSD18	44	1A3
	MDA3	126	MSD19	43	1A4
	MDA4	124	MSD20	41	1A5
	MDA5	123	MSD21	40	1A6
	MDA6	122	MSD22	38	1A7
	MDA7	121	MSD23	37	1A8
	MDA8	118	MSD24	36	2A1
	MDA9	117	MSD25	35	2A2
	MDA10	116	MSD26	33	2A3
	MDA11	115	MSD27	32	2A4
	MDA12	113	MSD28	30	2A5
	MDA13	112	MSD29	29	2A6
	MDA14	111	MSD30	27	2A7
	MDA15	110	MSD31	26	2A8

TC	IC3203/VAD CON		SIGNAL NAME	IC6003/BUFFER	
	Port Name	Pin No		Pin No	Port Name
10 | 2	MD0	107	MSA1	23	4Y4
	MD1	106	MSA2	22	4Y3
	MD2	105	MSA3	20	4Y2
	MD3	104	MSA4	19	4Y1
	MD4	103	MSA5	17	3Y4
	MD5	102	MSA6	16	3Y3
	MD6	101	MSA7	14	3Y2

TC	IC3402/AV ENC		SIGNAL NAME	IC6002/BUFFER	
	Port Name	Pin No		Pin No	Port Name
11 | 1	HD0	81	MSD16	47	1A1
	HD1	82	MSD17	46	1A2
	HD2	85	MSD18	44	1A3
	HD3	86	MSD19	43	1A4
	HD4	88	MSD20	41	1A5
	HD5	89	MSD21	40	1A6
	HD6	90	MSD22	38	1A7
	HD7	92	MSD23	37	1A8
	HD8	93	MSD24	36	2A1
	HD9	94	MSD25	35	2A2
	HD10	97	MSD26	33	2A3
	HD11	98	MSD27	32	2A4
	HD12	99	MSD28	30	2A5
	HD13	101	MSD29	29	2A6
	HD14	102	MSD30	27	2A7
	HD15	103	MSD31	26	2A8

TC	IC3402/AV ENC		SIGNAL NAME	IC6003/BUFFER	
	Port Name	Pin No		Pin No	Port Name
11 | 2	HA0	106	MSA1	23	4Y4
	HA1	107	MSA2	22	4Y3
	HA2	108	MSA3	20	4Y2
	HA3	109	MSA4	19	4Y1
	HA4	105	MSA5	17	3Y4

TC	IC3405/RTSC		SIGNAL NAME	IC6002/BUFFER	
	Port Name	Pin No		Pin No	Port Name
12 | 1	HMDT16	99	MSD16	47	1A1
	HMDT17	98	MSD17	46	1A2
	HMDT18	97	MSD18	44	1A3
	HMDT19	96	MSD19	43	1A4
	HMDT20	95	MSD20	41	1A5
	HMDT21	94	MSD21	40	1A6
	HMDT22	93	MSD22	38	1A7
	HMDT23	92	MSD23	37	1A8
	HMDT24	89	MSD24	36	2A1
	HMDT25	88	MSD25	35	2A2
	HMDT26	87	MSD26	33	2A3
	HMDT27	86	MSD27	32	2A4
	HMDT28	85	MSD28	30	2A5
	HMDT29	84	MSD29	29	2A6
	HMDT30	83	MSD30	27	2A7
	HMDT31	82	MSD31	26	2A8

TC	IC3405/RTSC		SIGNAL NAME	IC6003/BUFFER	
	Port Name	Pin No		Pin No	Port Name
12 | 2	HMADR1	56	MSA1	23	4Y4
	HMADR2	57	MSA2	22	4Y3
	HMADR3	58	MSA3	20	4Y2
	HMADR4	59	MSA4	19	4Y1
	HMADR5	60	MSA5	17	3Y4
	HMADR6	61	MSA6	16	3Y3
	HMADR7	62	MSA7	14	3Y2

TC	IC6701/GLUE		SIGNAL NAME	IC6002/BUFFER	
	Port Name	Pin No		Pin No	Port Name
13 | 1	MSD16	18	MSD16	47	1A1
	MSD17	17	MSD17	46	1A2
	MSD18	16	MSD18	44	1A3
	MSD19	15	MSD19	43	1A4
	MSD20	14	MSD20	41	1A5
	MSD21	13	MSD21	40	1A6
	MSD22	12	MSD22	38	1A7
	MSD23	11	MSD23	37	1A8
	MSD24	9	MSD24	36	2A1
	MSD25	8	MSD25	35	2A2
	MSD26	7	MSD26	33	2A3
	MSD27	6	MSD27	32	2A4
	MSD28	5	MSD28	30	2A5
	MSD29	4	MSD29	29	2A6
	MSD30	3	MSD30	27	2A7
	MSD31	2	MSD31	26	2A8

TC	IC6701/GLUE		SIGNAL NAME	IC6003/BUFFER	
	Port Name	Pin No		Pin No	Port Name
13 | 2	MSA1	94	MSA1	23	4Y4
	MSA2	95	MSA2	22	4Y3
	MSA3	96	MSA3	20	4Y2
	MSA4	97	MSA4	19	4Y1
	MSA5	98	MSA5	17	3Y4
	MSA6	99	MSA6	16	3Y3
	MSA7	104	MSA7	14	3Y2

TC	IC50003/AV DEC		SIGNAL NAME	IC6002/BUFFER	
	Port Name	Pin No		Pin No	Port Name
14 | 1	HD0	55	MSD16	47	1A1
	HD1	56	MSD17	46	1A2
	HD2	57	MSD18	44	1A3
	HD3	59	MSD19	43	1A4
	HD4	60	MSD20	41	1A5
	HD5	61	MSD21	40	1A6
	HD6	63	MSD22	38	1A7
	HD7	64	MSD23	37	1A8
	HD8	65	MSD24	36	2A1
	HD9	67	MSD25	35	2A2
	HD10	68	MSD26	33	2A3
	HD11	70	MSD27	32	2A4
	HD12	72	MSD28	30	2A5
	HD13	73	MSD29	29	2A6
	HD14	74	MSD30	27	2A7
	HD15	76	MSD31	26	2A8

TC	IC50003/AV DEC		SIGNAL NAME	IC6003/BUFFER	
	Port Name	Pin No		Pin No	Port Name
14 | 2	HA1	32	MSA1	23	4Y4
	HA2	33	MSA2	22	4Y3
	HA3	35	MSA3	20	4Y2
	HA4	36	MSA4	19	4Y1
	HA5	37	MSA5	17	3Y4
	HA6	38	MSA6	16	3Y3
	HA7	40	MSA7	14	3Y2

TC	IC6005/CPU		SIGNAL NAME	IC6001,6008/WORKING MEMORY	
	Port Name	Pin No		Pin No	Port Name
15	MD0	205	MD0	2	DQ0
	MD1	206	MD1	4	DQ1
	MD2	207	MD2	5	DQ2
	MD3	208	MD3	7	DQ3
	MD4	209	MD4	8	DQ4
	MD5	210	MD5	10	DQ5
	MD6	211	MD6	11	DQ6
	MD7	212	MD7	13	DQ7
	MD8	213	MD8	42	DQ8
	MD9	214	MD9	44	DQ9
	MD10	217	MD10	45	DQ10
	MD11	218	MD11	47	DQ11
	MD12	219	MD12	48	DQ12
	MD13	222	MD13	50	DQ13
	MD14	223	MD14	51	DQ14
	MD15	224	MD15	53	DQ15
	MA0	256	MA0	23	A0
	MA1	255	MA1	24	A1
	MA2	254	MA2	25	A2
	MA3	253	MA3	26	A3
	MA4	252	MA4	29	A4
	MA5	251	MA5	30	A5
	MA6	250	MA6	31	A6
	MA7	247	MA7	32	A7
	MA8	246	MA8	33	A8
	MA9	245	MA9	34	A9
	MA10	244	MA10	22	A10
	MA11	243	MA11	35	A11
	MA12	242	MA12	36	NC
	MA13	241	MA13	21	A12
	MA14	240	MA14	20	A13

TC	IC3405/RTSC		SIGNAL NAME	IC50003/AV DEC	
	Port Name	Pin No		Pin No	Port Name
16	STD0	40	STD0	88	STD0
	STD1	39	STD1	87	STD1
	STD2	38	STD2	86	STD2
	STD3	37	STD3	85	STD3
	STD4	36	STD4	84	STD4
	STD5	35	STD5	83	STD5
	STD6	34	STD6	82	STD6
	STD7	33	STD7	81	STD7

TC	IC37002/8bit CONVERTER		SIGNAL NAME	IC37001/DV DEC	
	Port Name	Pin No		Pin No	Port Name
22	D0	6	R656DD0	49	D0
	D1	7	R656DD1	48	D1
	D2	8	R656DD2	45	D2
	D3	9	R656DD3	44	D3
	D4	10	R656DD4	42	D4
	D5	11	R656DD5	41	D5
	D6	12	R656DD6	39	D6
	D7	13	R656DD7	38	D7

TC	IC50003/AV DEC		SIGNAL NAME	IC50012/DV I/O	
	Port Name	Pin No		Pin No	Port Name
24	VDOUT0	140	R656DD0	2	I0
	VDOUT1	141	R656DD1	3	I1
	VDOUT2	142	R656DD2	4	I2
	VDOUT3	143	R656DD3	5	I3
	VDOUT4	145	R656DD4	6	I4
	VDOUT5	146	R656DD5	7	I5
	VDOUT6	147	R656DD6	8	I6
	VDOUT7	149	R656DD7	9	I7

TC	IC6705/16bit BUFFER		SIGNAL NAME	IC6802/PC CARD	
	Port Name	Pin No		Pin No	Port Name
26	4Y4	23	AP0	5	SA0
	4Y3	22	AP1	4	SA1
	4Y2	20	AP2	3	SA2
	4Y1	19	AP3	2	SA3
	3Y4	17	AP4	1	SA4
	3Y3	16	AP5	64	SA5
	3Y2	14	AP6	63	SA6
	3Y1	13	AP7	62	SA7
	2Y4	12	AP8	61	SA8
	2Y3	11	AP9	60	SA9
	2Y2	9	AP11	59	SA11
	2Y1	8	AP25	58	SA25

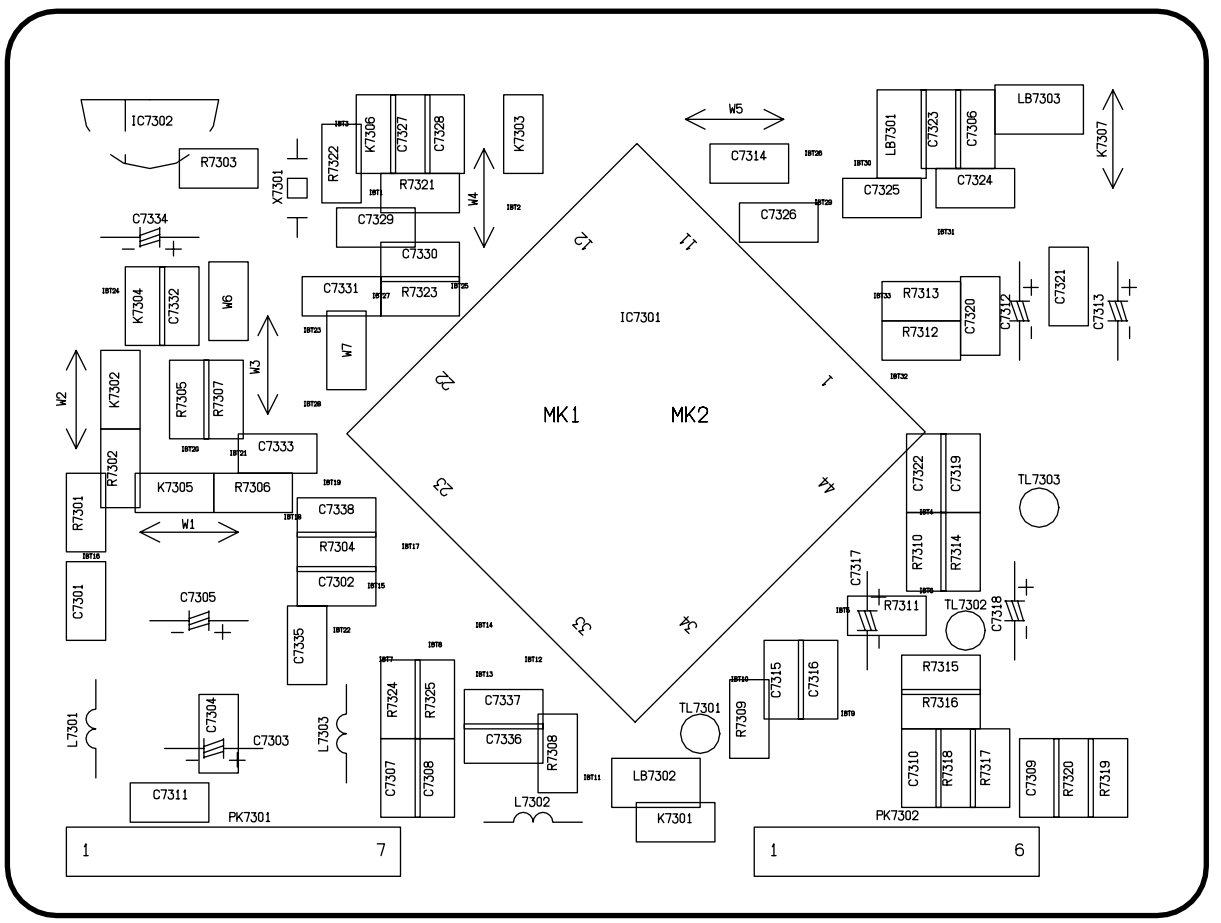
TC	IC6706/DATA BUFFER		SIGNAL NAME	IC6802/PC CARD	
	Port Name	Pin No		Pin No	Port Name
28	A1	3	DP16	19	SD0
	A2	4	DP17	18	SD1
	A3	5	DP18	17	SD2
	A4	6	DP19	16	SD3
	A5	7	DP20	14	SD4
	A6	8	DP21	13	SD5
	A7	9	DP22	12	SD6
	A8	10	DP23	11	SD7

TC	23-1		23-2		23-3	
SIGNAL NAME	**IC50012/DV I/O**		**IC3203/VAD CON**		**IC37001/DV DEC**	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
R656DD0	18	O0	155	R656IN0	145	REC656OUT0
R656DD1	17	O1	154	R656IN1	144	REC656OUT1
R656DD2	16	O2	153	R656IN2	143	REC656OUT2
R656DD3	15	O3	152	R656IN3	142	REC656OUT3
R656DD4	14	O4	151	R656IN4	140	REC656OUT4
R656DD5	13	O5	150	R656IN5	139	REC656OUT5
R656DD6	12	O6	149	R656IN6	138	REC656OUT6
R656DD7	11	O7	148	R656IN7	137	REC656OUT7

TC	12-3		17		18-1		19-1		20-1		21-1		25	
SIGNAL NAME	**IC3405/RTSC**		**IC6701/GLUE**		**IC6003/BUFFER**		**IC6007/LOADER**		**IC6005/MAIN CPU**		**IC6703/ECC**		**IC6705/BUFFER**	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SA0	-	-	-	-	-	-	-	-	38	SA0	-	-	-	-
SA1	-	-	-	-	26	4A4	11	A0	37	SA1	-	-	26	4A4
SA2	-	-	-	-	27	4A3	10	A1	36	SA2	11	A2	27	4A3
SA3	-	-	-	-	29	4A2	9	A2	35	SA3	12	A3	29	4A2
SA4	-	-	-	-	30	4A1	8	A3	34	SA4	13	A4	30	4A1
SA5	-	-	-	-	32	3A4	7	A4	33	SA5	-	-	32	3A4
SA6	-	-	-	-	33	3A3	6	A5	32	SA6	-	-	33	3A3
SA7	-	-	-	-	35	3A2	5	A6	31	SA7	-	-	35	3A2
SA8	-	-	-	-	-	-	4	A7	30	SA8	-	-	36	3A1
SA9	65	HMADR9	-	-	-	-	42	A8	29	SA9	-	-	37	2A4
SA10	66	HMADR10	-	-	-	-	41	A9	28	SA10	-	-	38	2A3
SA11	67	HMADR11	-	-	-	-	40	A10	25	SA11	-	-	-	-
SA12	68	HMADR12	-	-	-	-	39	A11	24	SA12	-	-	40	2A2
SA13	69	HMADR13	-	-	-	-	38	A12	23	SA13	-	-	-	-
SA14	70	HMADR14	-	-	-	-	37	A13	21	SA14	-	-	-	-
SA15	71	HMADR15	-	-	-	-	36	A14	20	SA15	-	-	-	-
SA16	72	HMADR16	-	-	-	-	35	A15	19	SA16	-	-	-	-
SA17	73	HMADR17	-	-	-	-	34	A16	17	SA17	-	-	-	-
SA18	-	-	-	-	-	-	3	A17	16	SA18	-	-	-	-
SA19	-	-	105	SA19	-	-	-	-	15	SA19	-	-	-	-
SA20	-	-	-	-	-	-	-	-	14	SA20	-	-	-	-
SA21	-	-	-	-	-	-	-	-	13	SA21	-	-	-	-
SA22	-	-	-	-	-	-	-	-	12	SA22	-	-	-	-
SA23	-	-	106	SA23	-	-	-	-	11	SA23	-	-	-	-
SA24	-	-	107	SA24	-	-	-	-	9	SA24	14	A24	-	-
SA25	-	-	108	SA25	-	-	-	-	8	SA25	-	-	-	-

TC	18-2		19-2		20-2		21-2		27	
SIGNAL NAME	**IC6002/BUFFER**		**IC6007/LOADER**		**IC6005/MAIN CPU**		**IC6703/ECC**		**IC6706/DATA BUFFER**	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SD0	-	-	-	-	119	SD0	39	SD0	-	-
SD1	-	-	-	-	118	SD1	38	SD1	-	-
SD2	-	-	-	-	117	SD2	37	SD2	-	-
SD3	-	-	-	-	116	SD3	36	SD3	-	-
SD4	-	-	-	-	114	SD4	34	SD4	-	-
SD5	-	-	-	-	113	SD5	33	SD5	-	-
SD6	-	-	-	-	112	SD6	32	SD6	-	-
SD7	-	-	-	-	111	SD7	31	SD7	-	-
SD8	-	-	-	-	109	SD8	29	SD8	-	-
SD9	-	-	-	-	108	SD9	28	SD9	-	-
SD10	-	-	-	-	107	SD10	27	SD10	-	-
SD11	-	-	-	-	105	SD11	26	SD11	-	-
SD12	-	-	-	-	104	SD12	24	SD12	-	-
SD13	-	-	-	-	103	SD13	23	SD13	-	-
SD14	-	-	-	-	101	SD14	22	SD14	-	-
SD15	-	-	-	-	100	SD15	21	SD15	-	-
SD16	2	1B1	15	D0	99	SD16	-	-	21	B1
SD17	3	1B2	17	D1	98	SD17	-	-	20	B2
SD18	5	1B3	19	D2	96	SD18	-	-	19	B3
SD19	6	1B4	21	D3	95	SD19	-	-	18	B4
SD20	8	1B5	24	D4	93	SD20	-	-	17	B5
SD21	9	1B6	26	D5	92	SD21	-	-	16	B6
SD22	11	1B7	28	D6	91	SD22	-	-	15	B7
SD23	12	1B8	30	D7	90	SD23	-	-	14	B8
SD24	13	2B1	16	D8	88	SD24	-	-	-	-
SD25	14	2B2	18	D9	87	SD25	-	-	-	-
SD26	16	2B3	20	D10	86	SD26	-	-	-	-
SD27	17	2B4	22	D11	85	SD27	-	-	-	-
SD28	19	2B5	25	D12	84	SD28	-	-	-	-
SD29	20	2B6	27	D13	83	SD29	-	-	-	-
SD30	22	2B7	29	D14	81	SD30	-	-	-	-
SD31	23	2B8	31	D15	80	SD31	-	-	-	-

Nicam/Decoder P.C.B.



DMR-HS2EB/EB1/EG/EG1/GN
Nicam/Decoder P.C.B. (VEP07A51A)

B

A

1

2

Ref No.	IC7301																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.5	2.5	4.9	0	0	4.9	0	-	0	-	0	0.5	0	1.5	1.5	0	0	2.0	0	0
PLAY	2.5	2.5	4.9	0	0	4.9	0	-	0	-	0	0.4	0	1.5	1.5	0	0	2.0	0	0
STOP	2.5	2.5	4.9	0	0	4.9	0	-	0	-	0	0.5	0	1.5	1.5	0	0	2.0	0	0

Ref No.	IC7301																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	3.3	0	2.0	2.0	2.0	4.9	0	4.9	4.4	4.2	0.7	0.7	0.7	0.7	4.9	0	4.9	2.5	2.5	2.5
PLAY	3.2	0	2.0	2.0	2.0	4.9	0	4.9	4.4	4.2	0.4	0.4	0.4	0.4	4.9	0	4.9	2.5	2.5	2.5
STOP	3.2	0	2.0	2.0	2.0	4.9	0	4.9	4.4	4.2	0.4	0.4	0.4	0.4	4.9	0	4.9	2.5	2.5	2.4

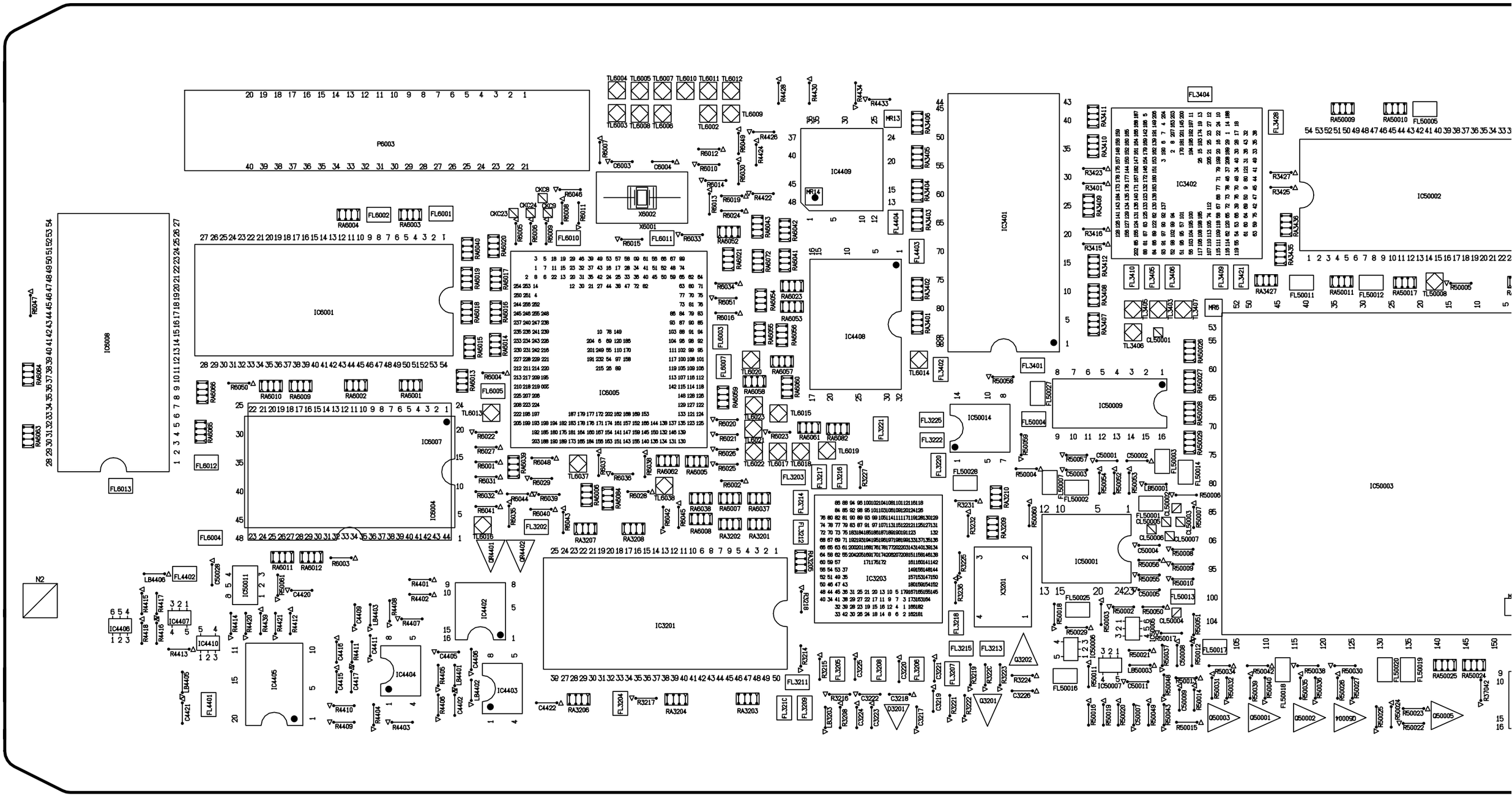
Ref No.	IC7301					IC7302														
MODE	41	42	43	44		1	2	3												
REC	2.5	4.9	2.5	0		4.9	0	4.9												
PLAY	2.5	4.9	2.5	0		4.9	0	4.9												
STOP	2.5	4.9	2.5	0		4.9	0	4.9												

DIGITAL P.C.B.

Transistor		
Q3201	A-4	C
Q3202	A-4	C
Q50001	A-5	C
Q50002	A-5	C
Q50003	A-5	C
Q50004	A-6	C
Q50005	A-6	C
Q6701	C-3	**F**
Q6702	C-3	**F**
Q6703	C-3	**F**
Q6704	C-3	**F**
Transistor-resistors		
QR3401	A-6	F
QR4401	B-2	C
QR4402	B-3	C
QR9001	C-5	F
Integrated Circuits		
IC3201	A-3	C
IC3202	B-4	F
IC3202	B-5	F
IC3203	B-4	C
IC3401	C-4	C
IC3402	C-5	C
IC3403	C-8	F
IC3404	C-8	F
IC3405	B-6	F
IC37001	B-8	C
IC37002	B-8	F
IC37003	A-8	C
IC37004	A-7	C
IC37005	A-7	C
IC37006	A-7	C
IC37007	A-6	C
IC37008	B-8	C
IC37009	A-7	C
IC37010	A-7	C
IC37011	A-8	C
IC4401	C-3	F
IC4402	A-2	C
IC4403	A-2	C
IC4404	A-2	C
IC4405	A-2	C
IC4406	A-1	F
IC4407	A-1	C
IC4408	B-4	C
IC4409	C-4	C
IC4410	A-1	C
IC50001	B-5	C
IC50002	C-6	C
IC50003	B-6	C
IC50004	C-7	C
IC50005	A-5	C
IC50006	A-5	C
IC50007	A-5	C
IC50008	C-1	F
IC50009	B-5	C
IC50010	C-1	F
IC50011	A-2	C
IC50012	B-7	C
IC50013	C-1	F
IC50014	B-4	C
IC50015	B-5	F
IC6001	C-2	C
IC6002	B-5	F
IC6003	B-4	F
IC6004	B-2	C
IC6004	B-4	C
IC6005	B-3	C
IC6006	B-1	F
IC6007	B-2	C
IC6008	B-1	C
IC6701	B-2	F
IC6702	A-3	F
IC6703	A-5	F
IC6703	A-5	F
IC6705	B-4	F
IC6706	B-3	F
IC6707	B-5	F
IC9001	A-7	C
Test Points		
CKA1	C-7	F
CKA10	C-6	F
CKA11	C-6	F
CKA12	C-6	F
CKA14	C-6	F
CKA16	C-6	F
CKA18	C-6	F
CKA2	C-7	F
CKA20	C-6	F
CKA24	C-6	F
CKA26	C-6	F
CKA28	C-5	F
CKA3	C-7	F
CKA30	C-5	F
CKA31	C-5	F
CKA31	C-5	F
CKA36	C-5	F
CKA38	C-5	F
CKA39	C-5	F
CKA4	C-7	F
CKA40	C-5	F
CKA41	C-5	F
CKA42	C-5	F
CKA43	C-5	F
CKA44	C-5	F
CKA47	C-5	F
CKA49	C-5	F
CKA5	C-6	F
CKA51	C-4	F
CKA55	C-4	F
CKA55	C-5	F
CKA57	C-4	F
CKA59	C-4	F
CKA6	C-6	F
CKA66	C-4	F
CKA68	C-3	F
CKA7	C-6	F
CKA70	C-4	F
CKA72	C-4	F
CKA74	C-4	F
CKA75	C-3	F
CKA76	C-3	F
CKA78	C-3	F
CKA8	C-6	F
CKA80	C-3	F
CKA9	C-6	F
CKC1	A-6	F
CKC10	A-7	F
CKC11	A-4	F
CKC12	B-6	F
CKC14	A-4	F
CKC15	A-4	F
CKC17	A-4	F
CKC18	B-4	F
CKC20	A-3	F
CKC21	B-4	F
CKC23	C-3	C
CKC24	C-3	C
CKC25	A-2	F
CKC26	A-3	F
CKC27	A-3	F
CKC28	A-3	F
CKC3	A-6	F
CKC30	B-1	F
CKC31	B-1	F
CKC32	B-1	F
CKC33	B-1	F
CKC34	B-1	F
CKC35	B-1	F
CKC36	B-1	F
CKC37	B-1	F
CKC38	B-1	F
CKC4	B-6	F
CKC40	B-1	F
CKC41	B-1	F
CKC42	A-1	F
CKC43	A-1	F
CKC44	A-1	F
CKC45	B-1	F
CKC46	B-1	F
CKC47	B-1	F
CKC48	B-1	F
CKC49	A-4	F
CKC5	A-6	F
CKC53	A-6	F
CKC54	A-6	F
CKC56	A-6	F
CKC58	A-6	F
CKC59	A-6	F
CKC6	A-6	F
CKC61	A-6	F
CKC62	A-6	F
CKC64	A-6	F
CKC66	A-6	F
CKC67	A-6	F
CKC68	A-6	F
CKC69	A-6	F
CKC7	A-6	F
CKC70	A-6	F
CKC71	A-5	F
CKC72	A-5	F
CKC73	A-5	F
CKC74	A-5	F
CKC75	A-5	F
CKC76	A-5	F
CKC77	A-5	F
CKC78	A-5	F
CKC79	A-5	F
CKC8	C-3	C
CKC80	A-5	F
CKC81	A-5	F
CKC82	A-5	F
CKC84	B-4	F
CKC85	B-4	F
CKC86	B-4	F
CKC87	B-4	F
CKC88	A-4	F
CKC89	A-4	F
CKC9	C-3	C
CKC90	A-4	F
CKC91	A-4	F
CKC92	A-5	F
CKC93	A-5	F
CKC94	A-5	F
CKC95	A-5	F
CKC96	A-5	F
CKC97	A-5	F
CKC98	B-5	F
CKC99	B-5	F
CKD1	A-2	F
CKE1	A-3	F
CKE11	A-3	F
CKE12	A-3	F
CKE14	A-3	F
CKE15	A-3	F
CKE16	A-3	F
CKE17	A-3	F
CKE19	A-3	F
CKE2	A-3	F
CKE20	A-3	F
CKE21	A-3	F
CKE22	A-3	F
CKE24	A-3	F
CKE25	A-3	F
CKE26	A-3	F
CKE27	A-3	F
CKE29	A-3	F
CKE3	A-3	F
CKE30	A-4	F
CKE31	A-4	F
CKE32	A-4	F
CKE33	A-4	F
CKE34	A-4	F
CKE35	A-3	F
CKE37	A-4	F
CKE39	A-4	F
CKE40	A-4	F
CKE42	A-4	F
CKE44	A-4	F
CKE46	A-4	F
CKE48	A-4	F
CKE49	A-4	F
CKE5	A-3	F
CKE50	A-4	F
CKE6	A-3	F
CKE8	A-3	F
CKE9	A-3	F
CKF1	A-8	F
CKF10	A-6	F
CKF11	A-7	F
CKF12	A-6	F
CKF13	A-7	F
CKF14	A-8	F
CKF15	A-7	F
CKF16	A-7	F
CKF17	A-7	F
CKF18	A-8	F
CKF21	A-7	F
CKF23	A-7	F
CKF25	A-8	F
CKF27	A-7	F
CKF29	A-7	F
CKF3	A-7	F
CKF31	A-7	F
CKF33	A-7	F
CKF35	A-8	F
CKF36	A-8	F
CKF37	A-8	F
CKF38	A-8	F
CKF4	A-7	F
CKF40	A-7	F
CKF5	A-7	F
CKF6	A-6	F
CKF7	A-7	F
CKF8	A-6	F
CKF9	A-7	F
CL50001	B-5	C
CL50002	B-5	C
CL50003	B-5	C
CL50004	A-5	C
CL50005	B-5	C
CL50006	B-5	C
CL50007	B-5	C
IBT1	B-3	F
TL3404	C-5	C
TL3405	C-5	C
TL3406	B-5	C
TL3407	C-5	C
TL3409	A-6	F
TL37001	B-8	C
TL37002	B-8	C
TL37003	B-8	C
TL37004	B-8	C
TL37005	C-8	C
TL37006	C-8	C
TL37007	C-8	C
TL37008	C-8	C
TL37010	C-8	C
TL37012	B-7	F
TL50008	C-6	C
TL6002	C-3	C
TL6003	C-3	C
TL6004	C-3	C
TL6005	C-3	C
TL6006	C-3	C
TL6007	C-3	C
TL6008	C-3	C
TL6009	C-3	C
TL6010	C-3	C
TL6011	C-3	C
TL6012	C-3	C
TL6013	B-2	C
TL6014	B-4	C
TL6016	B-2	C
TL6016	B-4	C
TL6017	B-4	C
TL6018	B-4	C
TL6019	B-4	C
TL6020	B-3	C
TL6021	B-3	C
TL6022	B-3	C
TL6023	B-3	C
TL6037	B-2	C
TL6038	B-2	C
TL6701	A-2	F
TL6702	A-2	F
TL6703	C-2	F
TL6704	A-1	F
TL6709	A-2	F
TL9005	B-3	F
Connectors		
P3401	A-7	F
P3402	C-7	C
P6001	A-2	F
P6002	A-5	F
P6003	C-2	C
P6004	A-2	F
P6701	A-3	F
P9001	A-5	F
PS37001	B-9	F

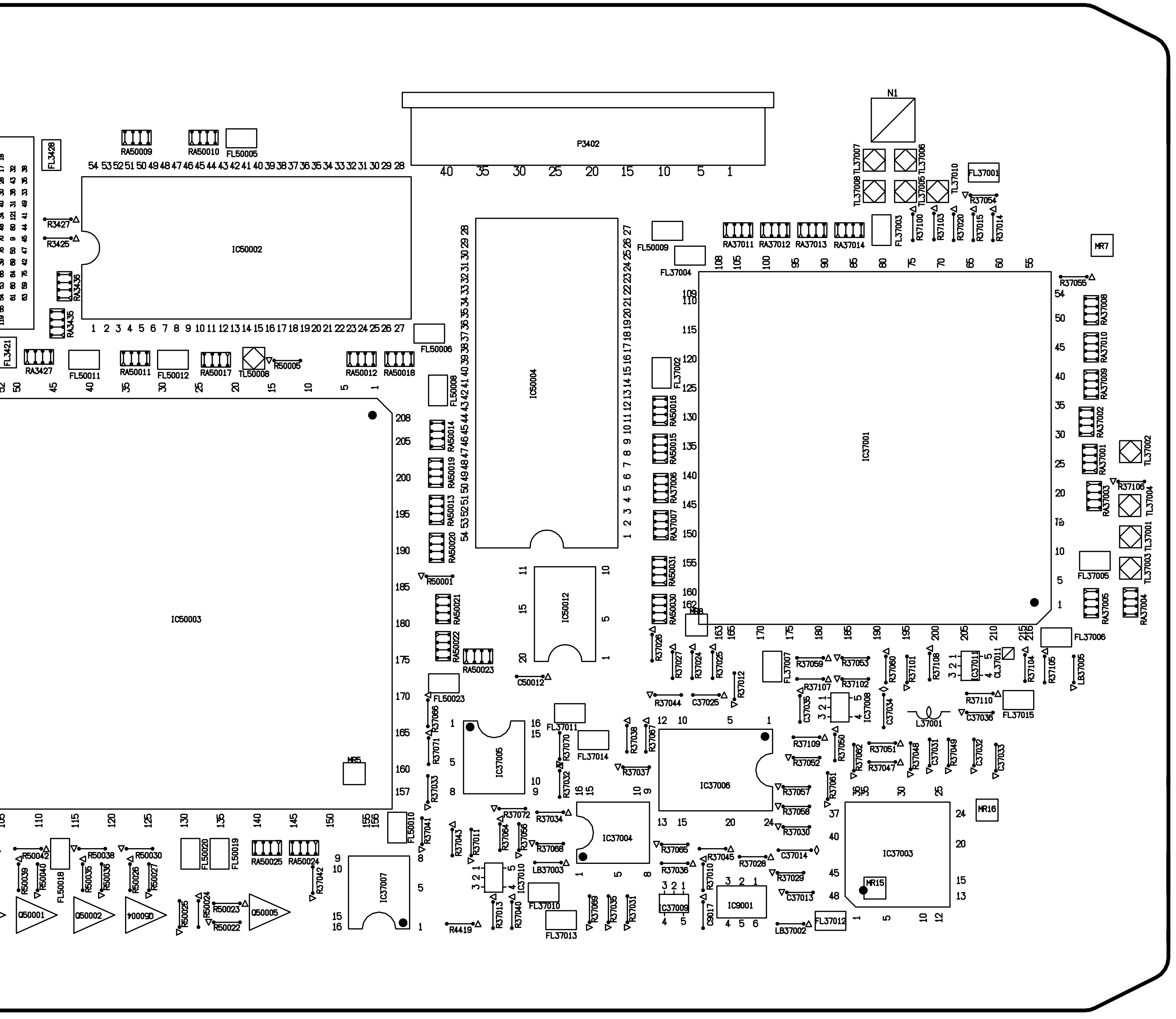
ADDRESS INFORMATION
C……COMPONENT SIDE
F……FOIL SIDE

DIGITAL P.C.B.



(COMPONENT SIDE)

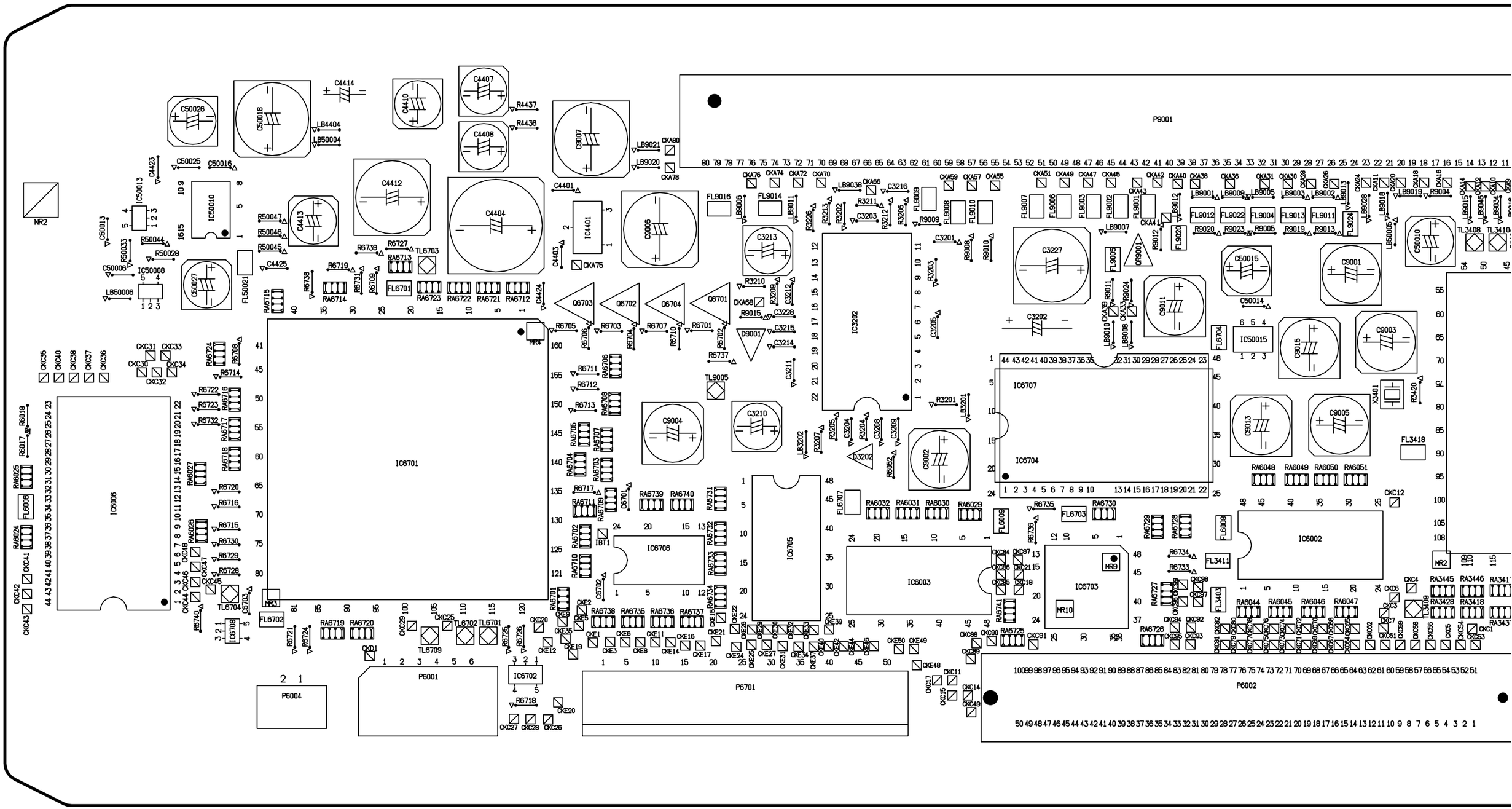
Digital P.C.B. (Component Side) 1/2 Section
DMR-HS2EB/EB1: REP3391CE DMR-HS2EG/EG1: REP3391AC
DMR-HS2GN: REP3391AE


P3402
N1
IC50002
IC50003
IC50004
IC50012
IC37001
IC37003
IC37004
IC37005
IC37006
IC37007
IC37008
IC37009
IC37011
IC9001
Q50001
Q50002
Q50004
Q50005
L37001
MR5
MR7
MR8
MR15
MR16
FL37001
FL37002
FL37003
FL37004
FL37005
FL37006
FL37007
FL37010
FL37011
FL37012
FL37013
FL37014
FL37015
FL50005
FL50006
FL50008
FL50009
FL50010
FL50011
FL50012
FL50018
FL50019
FL50020
FL50023
FL3421
FL3428
TL37001
TL37002
TL37003
TL37004
TL37005
TL37006
TL37007
TL37008
TL37010
TL50008
RA3427
RA3435
RA3436
RA37001
RA37002
RA37003
RA37004
RA37005
RA37006
RA37007
RA37008
RA37009
RA37010
RA37011
RA37012
RA37013
RA37014
RA50009
RA50010
RA50011
RA50012
RA50013
RA50014
RA50015
RA50016
RA50017
RA50018
RA50019
RA50020
RA50021
RA50022
RA50023
RA50024
RA50025
RA50030
RA50031
LB37002
LB37003
LB37005
CL37011
C50012
C37013
C37014
C37025
C37031
C37032
C37033
C37034
C37035
C37036
C9017
R3425
R3427
R4419
R50001
R50005

Digital P.C.B. (Component Side) 2/2 Section
DMR-HS2EB/EB1: REP3391CE DMR-HS2EG/EG1: REP3391AC
DMR-HS2GN: REP3391AE

6 7 8 9

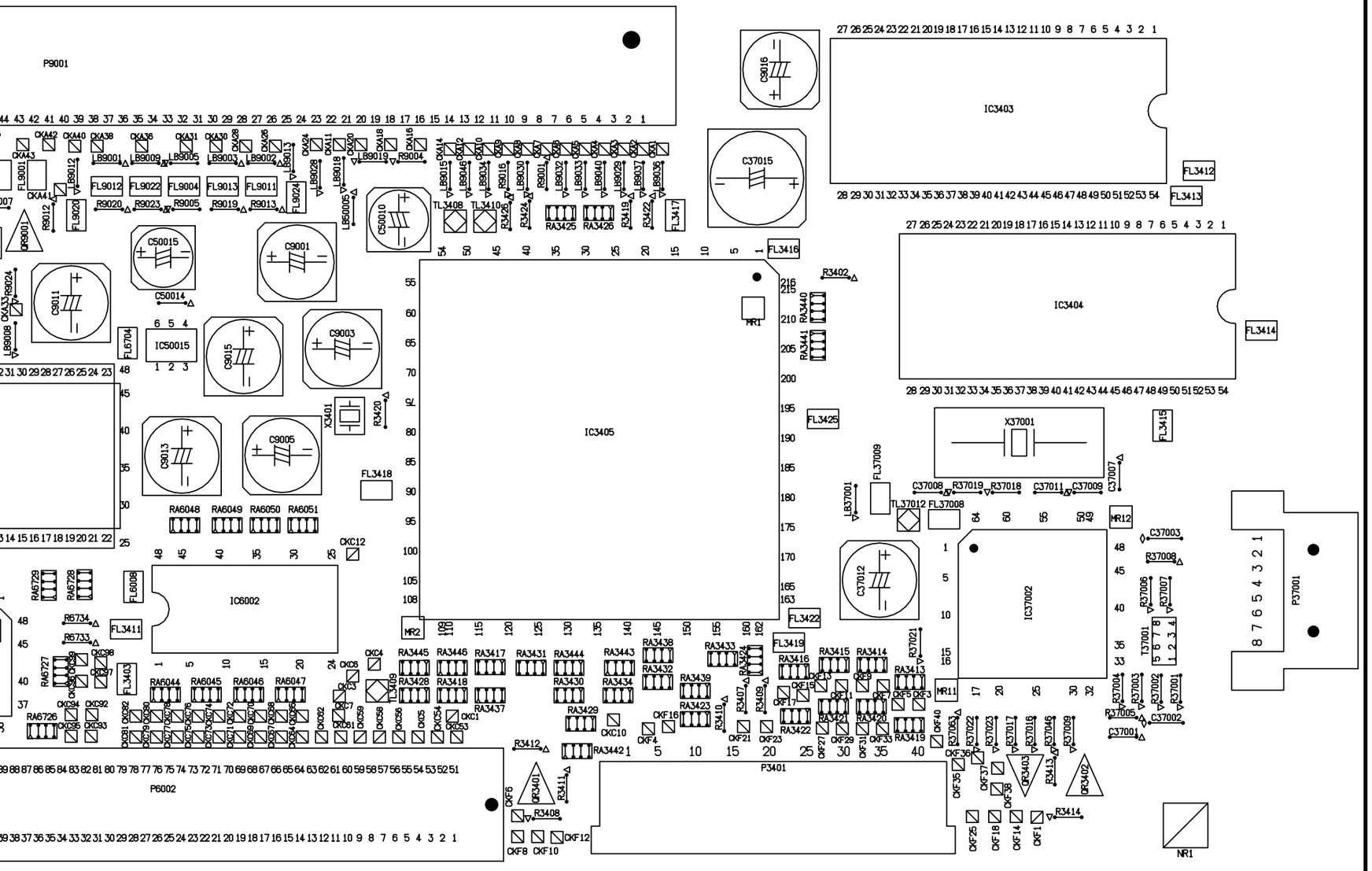
DIGITAL P.C.B.



(FOIL SIDE)

Digital P.C.B. (Foil Side) 1/2 Section
DMR-HS2EB/EB1: REP3391CE DMR-HS2EG/EG1: REP3391AC
DMR-HS2GN: REP3391AE

1 2 3 4 5 6

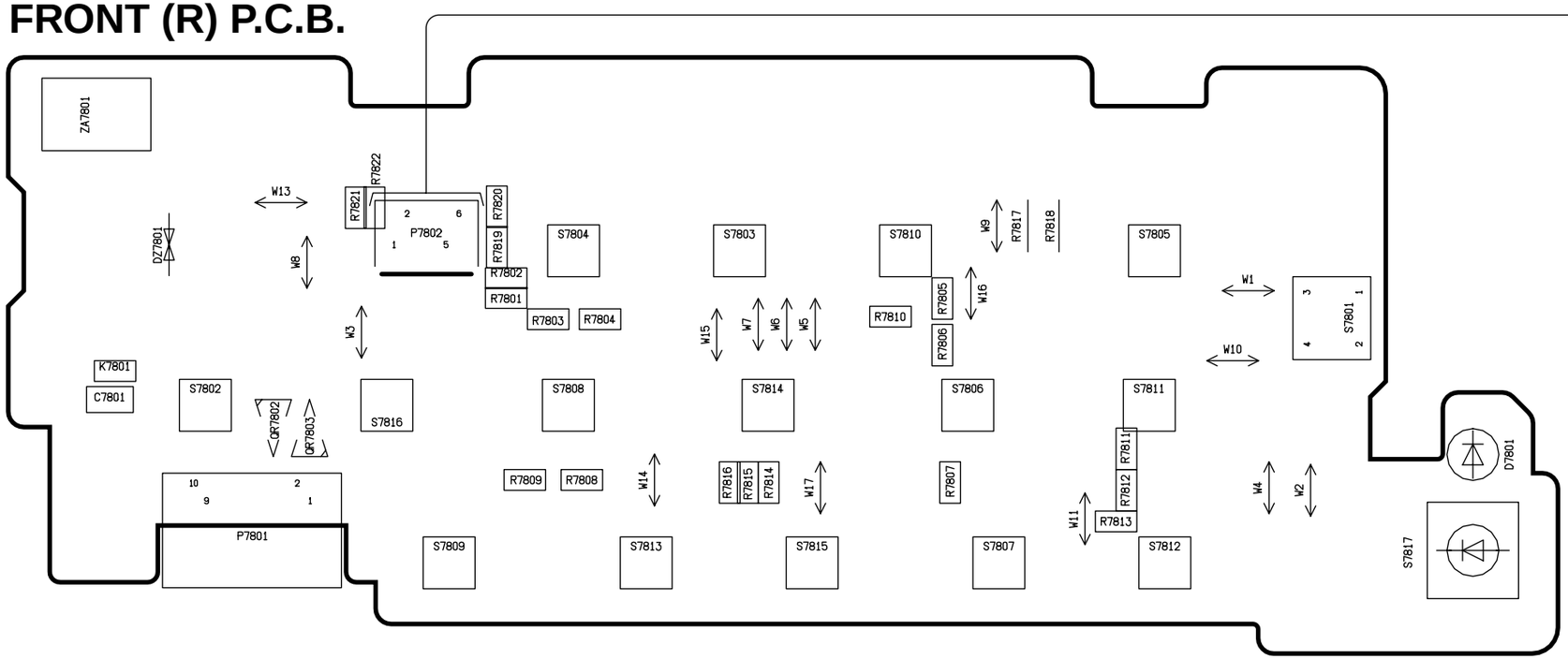


*IC6707 is not supplied in the form of an individual part.
When replacing, be sure to replace the digital p.c.b.
and not IC6707 singly.

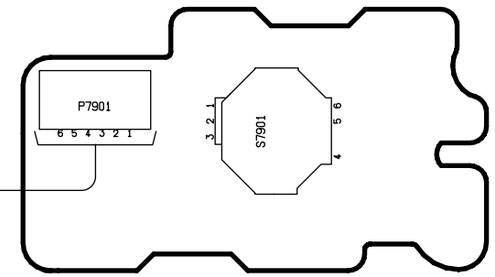
Digital P.C.B. (Foil Side) 2/2 Section
DMR-HS2EB/EB1: REP3391CE DMR-HS2EG/EG1: REP3391AC
DMR-HS2GN: REP3391AE

5	6	7	8	9

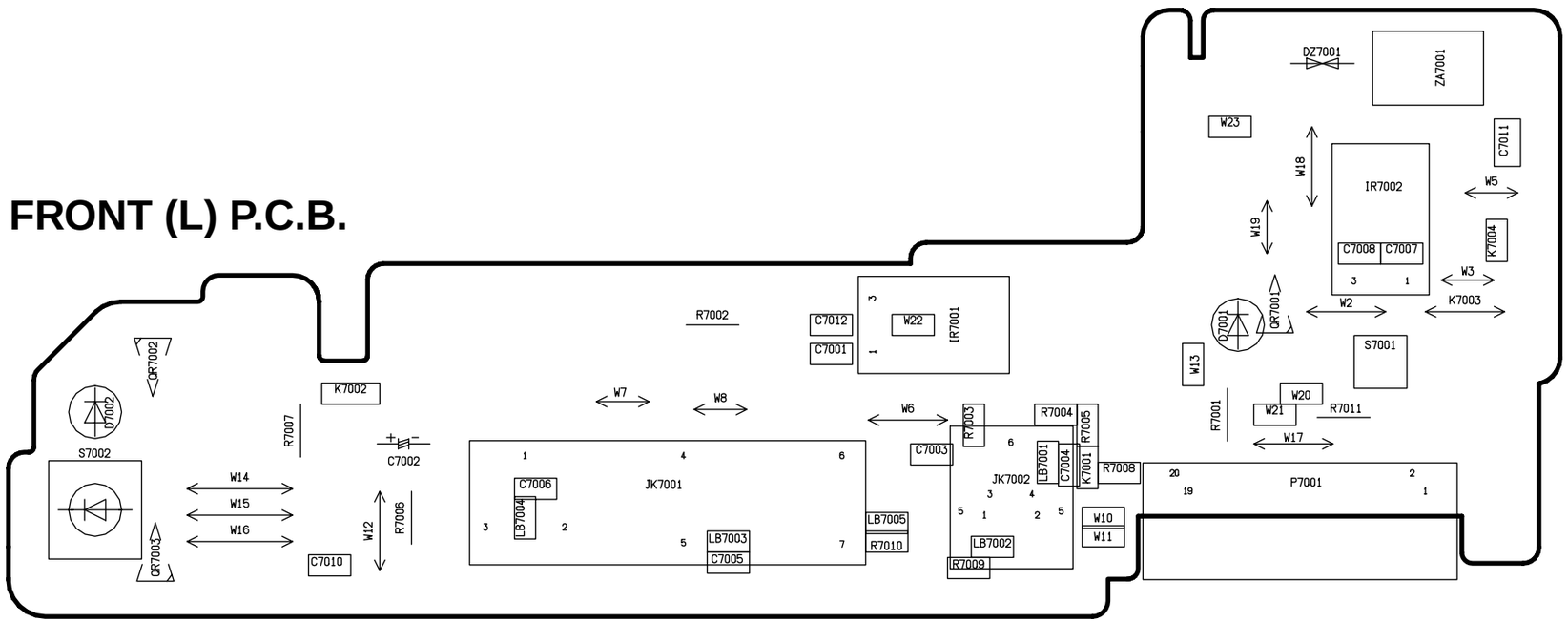
FRONT (R) P.C.B.



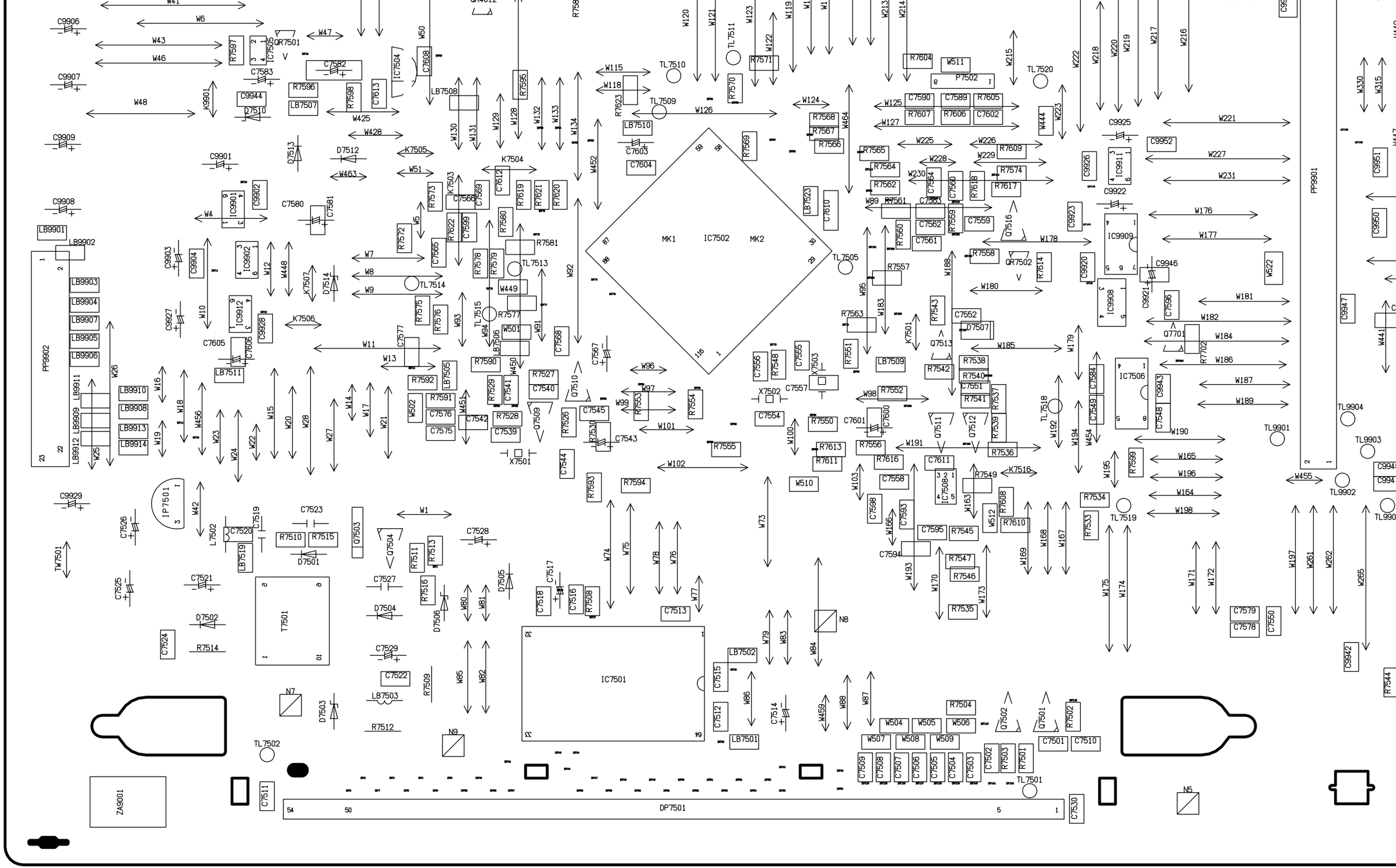
STICK P.C.B.



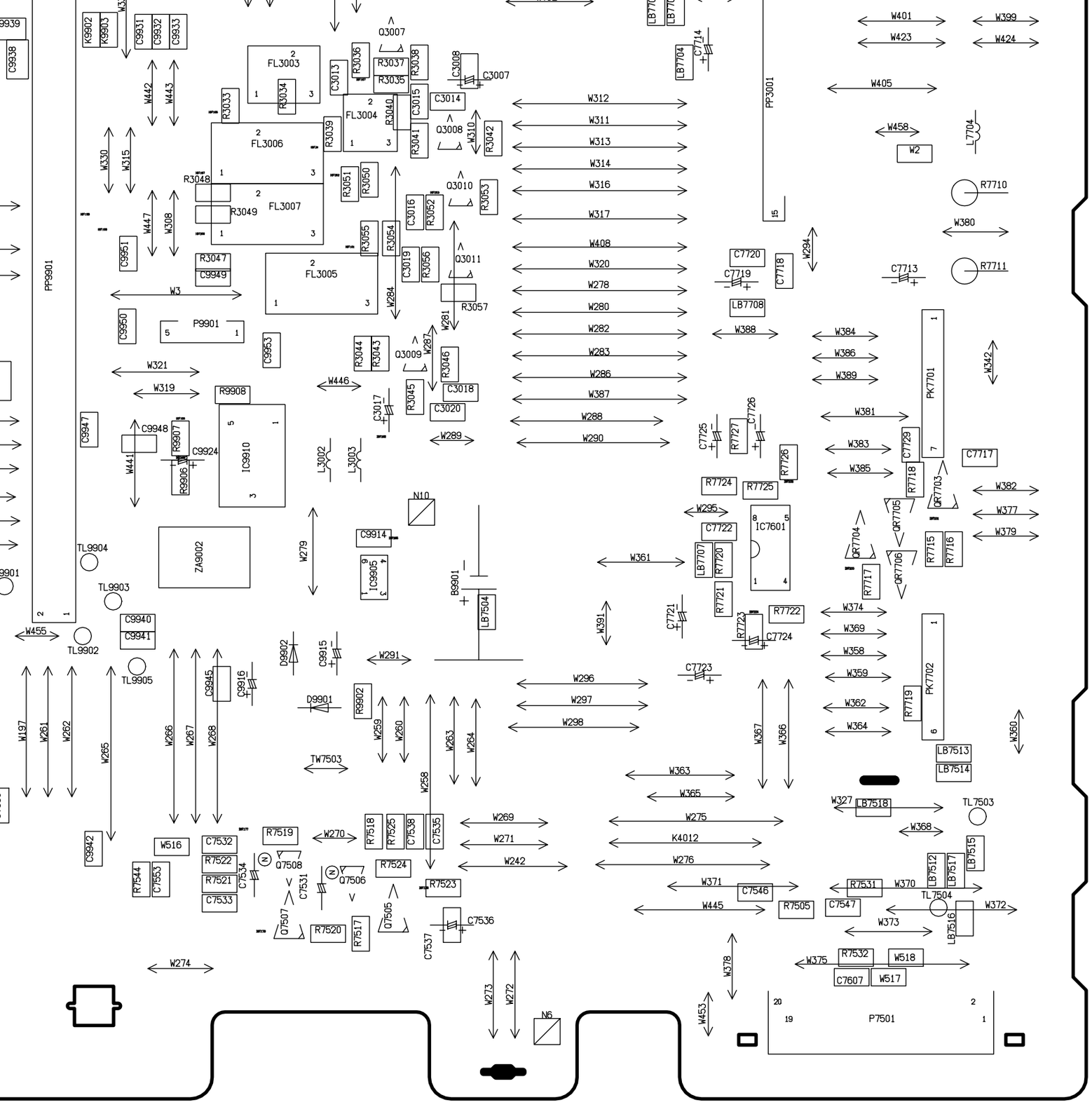
FRONT (L) P.C.B.



DMR-HS2EB/EB1/EG/EG1/GN
Front (R) P.C.B. (REP3386BB)
Front (L) P.C.B. (REP3386FA)
Stick P.C.B. (REP3386AC)

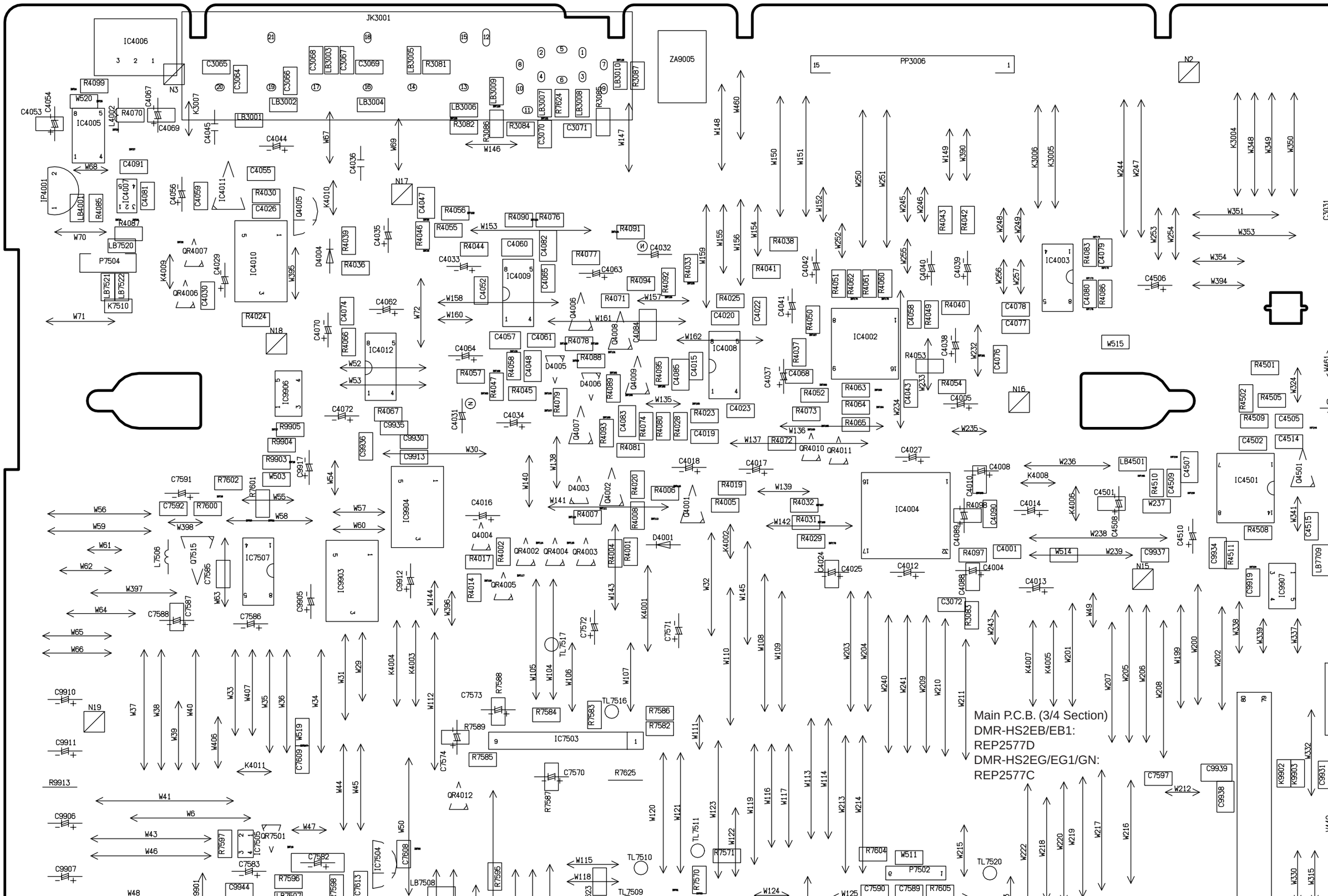


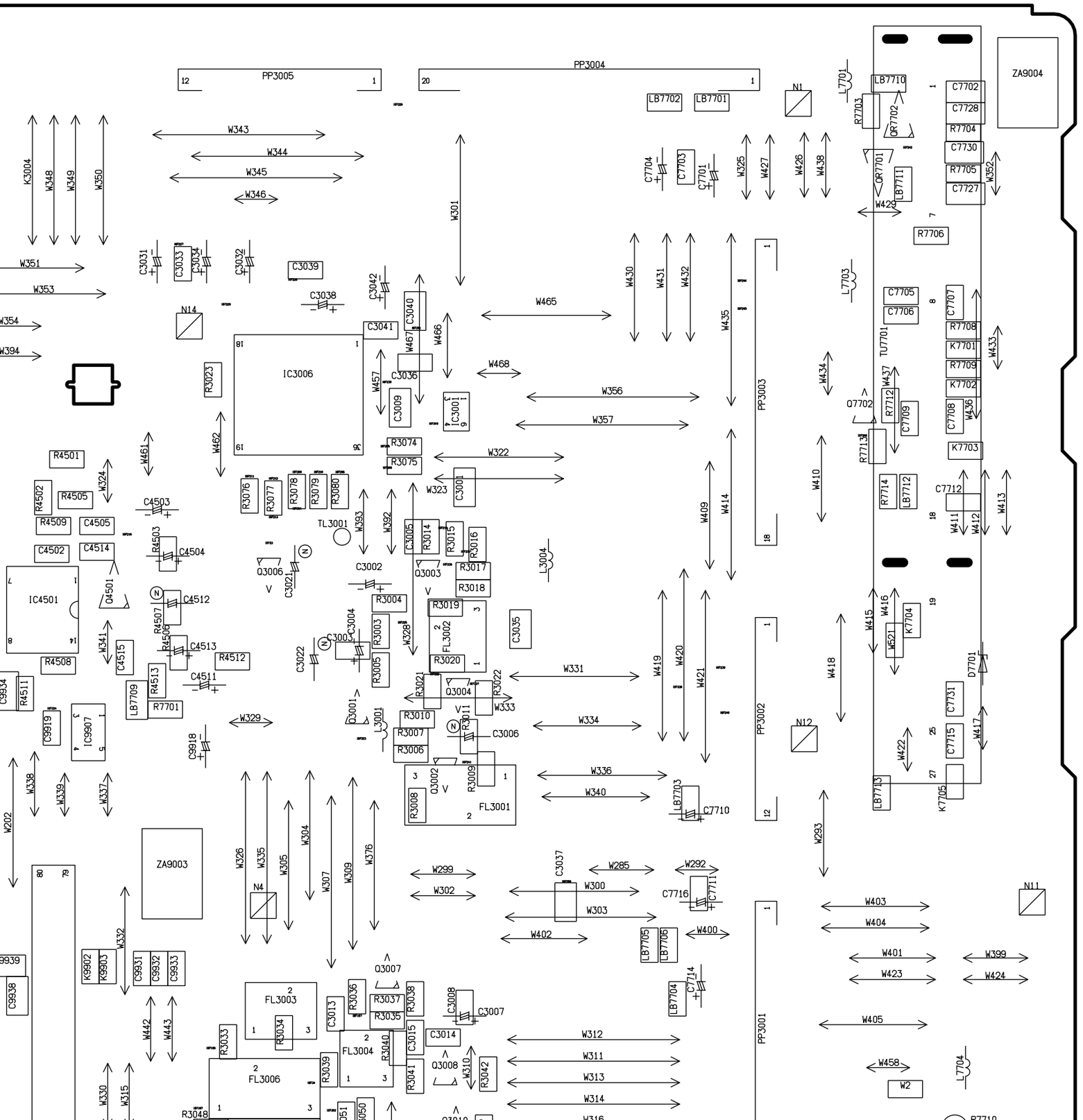
Main P.C.B. (1/4 Section)
DMR-HS2EB/EB1: REP2577D
DMR-HS2EG/EG1/GN: REP2577C



Main P.C.B. (2/4 Section)
DMR-HS2EB/EB1: REP2577D
DMR-HS2EG/EG1/GN: REP2577C

7	8	9	10


JK3001
IC4006
ZA9005
PP3006
N2
IC4005
IC4010
IC4009
IC4012
IC4008
IC4002
IC4003
IC4004
IC4501
IC9906
IC9904
IC9903
IC7507
IC7503
IC7504
IC7505
P7504
P7502
K7510
LB7520
LB7521
LB7522
IP4001
LB4001
LB3001
LB3002
LB3003
LB3004
LB3005
LB3006
LB3007
LB3008
LB3009
LB3010
LB4501
LB7508
LB7709
N3
N15
N16
N17
N18
N19
QR4006
QR4007
QR4010
QR4011
QR4012
QR5004
QR5005
QR7501
TL7509
TL7510
TL7511
TL7516
TL7517
TL7520
Main P.C.B. (3/4 Section)
DMR-HS2EB/EB1:
REP2577D
DMR-HS2EG/EG1/GN:
REP2577C



Main P.C.B. (4/4 Section)
DMR-HS2EB/EB1: REP2577D
DMR-HS2EG/EG1/GN: REP2577C

MAIN P.C.B.

Transistor

Q3001	F-7
Q3002	E-8
Q3003	F-8
Q3004	F-8
Q3006	F-7
Q3007	E-8
Q3008	D-8
Q3009	C-8
Q3010	D-8
Q3011	D-8
Q4001	F-4
Q4002	F-4
Q4004	F-3
Q4005	G-2
Q4006	G-3
Q4007	F-3
Q4008	G-4
Q4009	F-4
Q4501	F-7
Q7501	A-5
Q7502	A-5
Q7503	B-2
Q7504	B-2
Q7505	A-8
Q7506	B-7
Q7507	A-7
Q7508	B-7
Q7509	C-3
Q7510	C-3
Q7511	C-5
Q7512	C-5
Q7513	C-5
Q7515	F-2
Q7516	D-5
Q7701	C-6
Q7702	G-9

Transistor - resistors

QR4002	F-3
QR4003	F-3
QR4004	F-3
QR4005	E-3
QR4006	G-2
QR4007	G-2
QR4010	F-4
QR4011	F-5
QR4012	E-3
QR7501	D-2
QR7502	C-5
QR7701	H-9
QR7702	H-9
QR7703	C-10
QR7704	C-9
QR7705	C-9
QR7706	C-9

Integrated Circuits

IC3001	G-8
IC3006	G-7
IC4002	G-5
IC4003	G-6
IC4004	F-5
IC4005	H-1
IC4006	H-1
IC4007	G-1
IC4008	G-4
IC4009	G-3
IC4010	G-2
IC4011	G-2
IC4012	F-3
IC4501	F-6
IC7501	B-3
IC7502	C-4
IC7503	E-3
IC7504	D-2
IC7505	D-2
IC7506	C-6
IC7507	F-2
IC7508	B-5
IC7601	C-9
IC9901	D-2
IC9902	C-2
IC9903	F-2
IC9904	F-3
IC9905	C-8
IC9906	F-2
IC9907	E-7
IC9908	C-6
IC9909	C-6
IC9910	C-7
IC9911	D-6
IC9912	C-2

Test Points

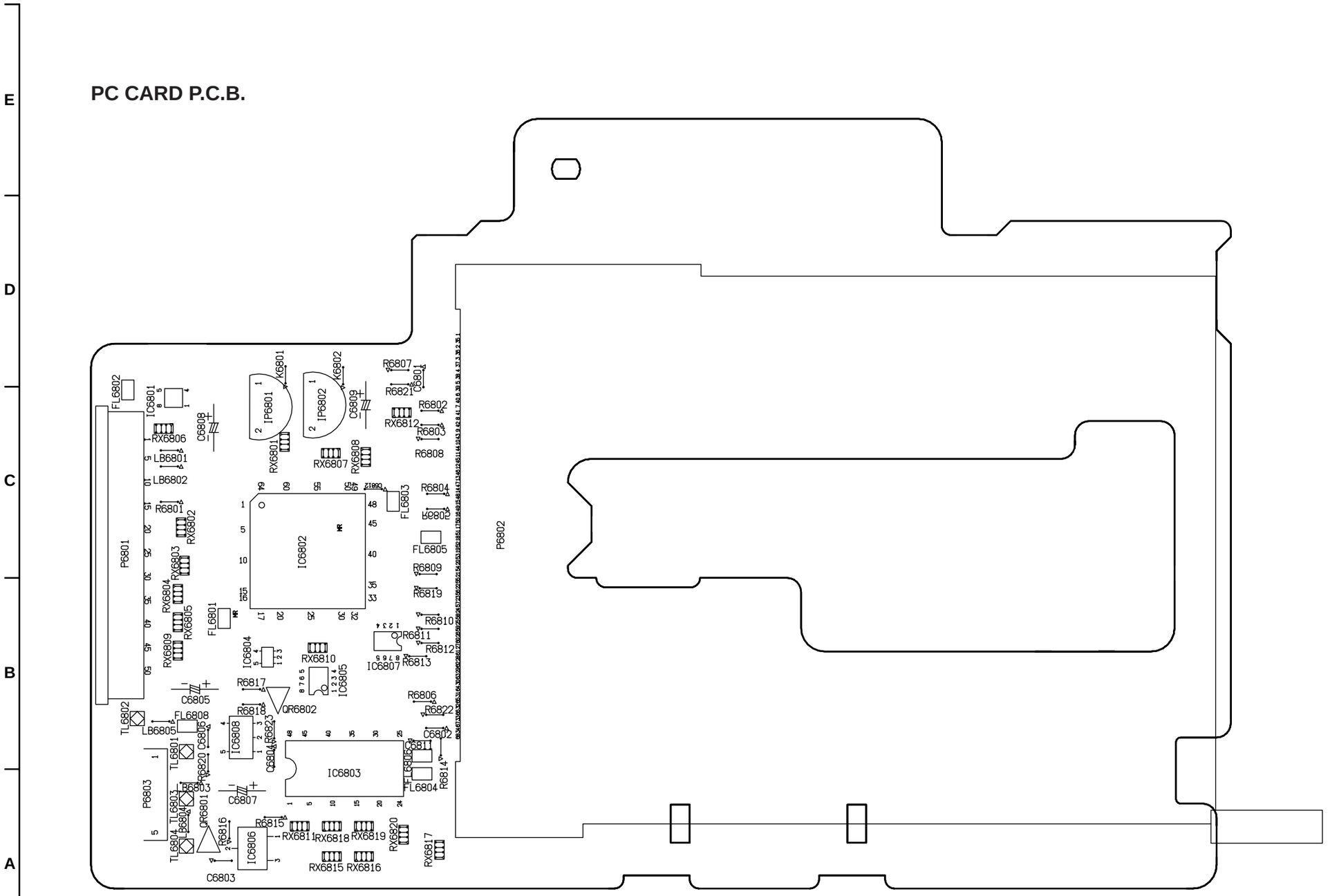
TL3001	F-3
TL7501	A-5
TL7502	A-9
TL7503	B-1
TL7504	A-1
TL7505	C-6
TL7509	D-7
TL7510	D-7
TL7511	D-7
TL7513	C-8
TL7514	C-8
TL7515	C-8
TL7516	E-7
TL7517	E-7
TL7518	C-5
TL7519	B-5
TL7520	D-5
TL9901	C-4
TL9902	B-4
TL9903	C-4
TL9904	C-4
TL9905	B-4

Connector

JK3001	H-2
P7501	A-10
P7502	D-5
P7504	G-1
P9901	D-7
PK7701	C-10
PK7702	B-10
PP3001	D-9
PP3002	F-9
PP3003	G-9
PP3004	H-8
PP3005	H-7
PP3006	H-5
PP9901	D-6
PP9902	C-1

ADDRESS INFORMATION

PC CARD P.C.B.

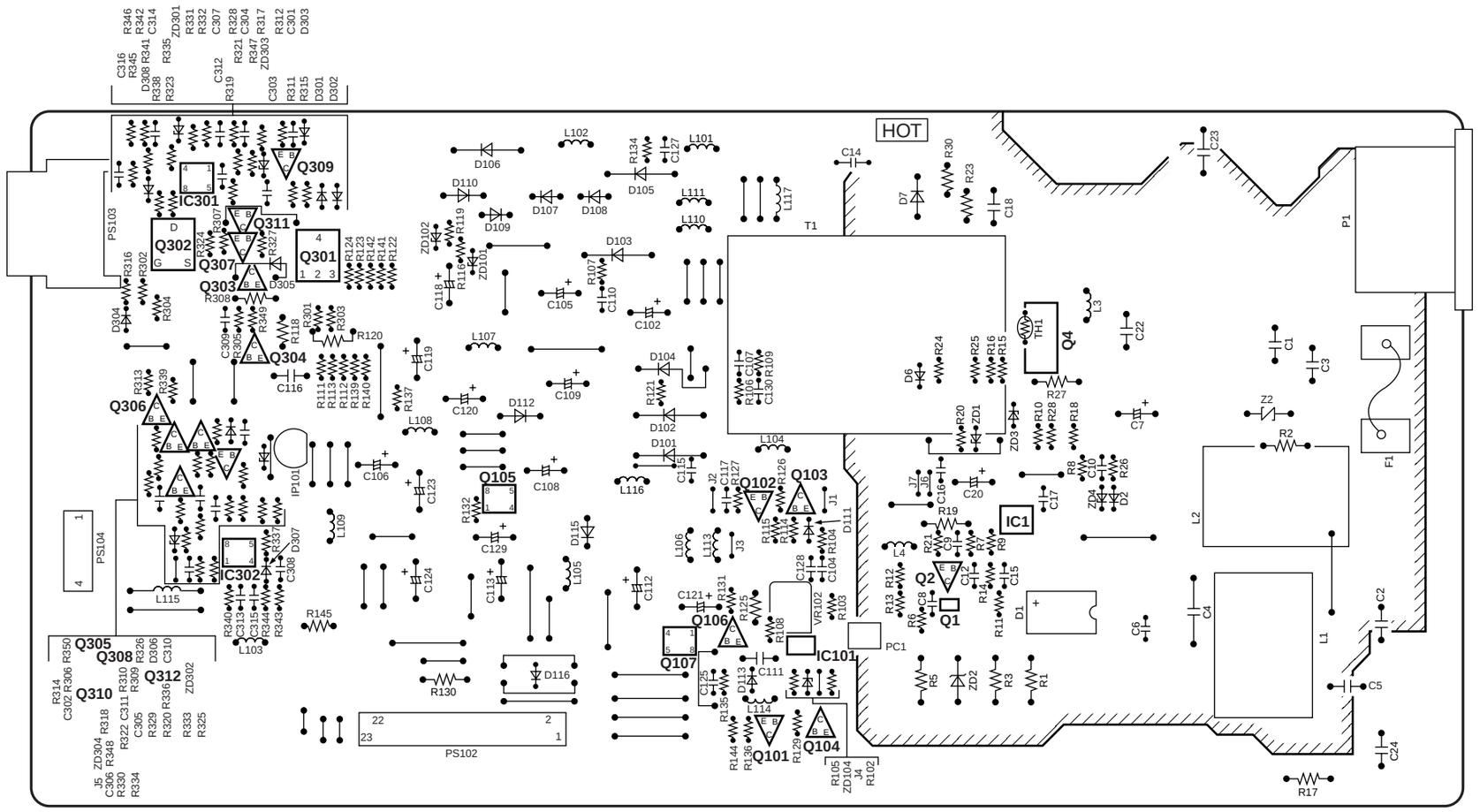


DMR-HS2EB/EB1/EG/EG1/GN
PC Card P.C.B. (REP3369AA)

POWER SUPPLY P.C.B.			
Transistor		Q1	B-5
Q101	A-4	Q2	B-5
Q104	A-4	Q4	C-5
Q105	B-3	Q102	B-4
Q107	B-4	Q103	B-4
Q301	C-2	Q106	B-4
Q302	C-2	**Integrated Circuits**	
Q303	C-2	IC1	B-5
Q304	C-2	IC101	B-4
Q305	C-2	IC301	D-2
Q306	C-2	IC302	B-1
Q307	C-2	**Connections**	
Q308	C-2	P1	C-7
Q309	D-2	PS102	A-3
Q310	B-2	PS103	C-1
Q311	C-2	PS104	B-1
Q312	C-2		

ADDRESS INFORMATION

POWER SUPPLY P.C.B.

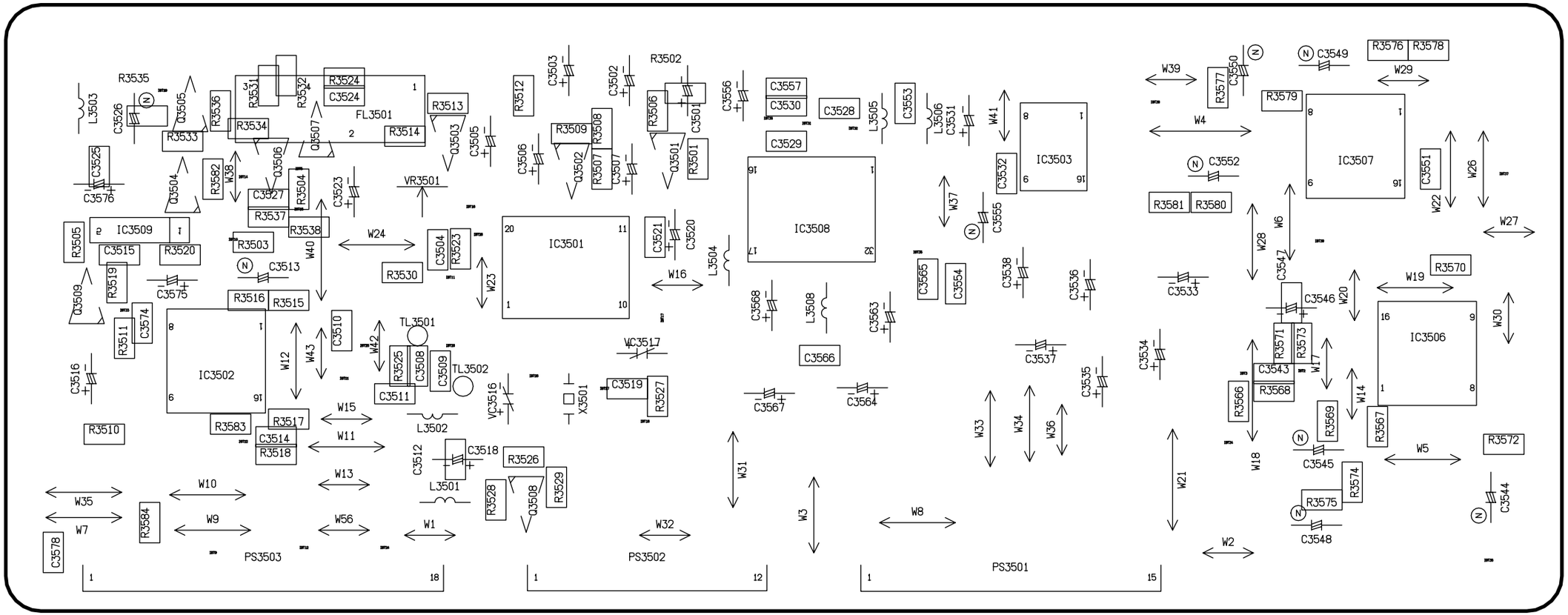


Power Supply P.C.B.
DMR-HS2EB/EB1/EG/EG1/GN (ETXMM387E4F)

Ref No.	IC1										IC101									
MODE	1	2	3	4	5	6	7	8			K	R	A							
REC	0	0	0	0.2	0.4	3.1	0.1	0			3.6	2.4	0							
PLAY	0	0	0	0.2	0.4	3.1	0.1	0			3.6	2.4	0							
STOP	0	0	0	0.2	0	3.1	0.1	0			3.6	2.4	0							
Ref No.	IC301										IC302									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
REC	2.8	1.2	1.2	0	12.4	11.5	1.7	1.7			11.6	2.9	3.0	0	1.2	1.2	4.7	12.4		
PLAY	2.8	1.2	1.2	0	1.7	1.7	11.5	12.4			11.6	2.9	3.0	0	1.2	1.2	4.5	12.4		
STOP	2.8	1.2	1.2	0	1.7	1.7	11.6	12.4			11.6	2.9	3.0	0	1.2	1.2	4.3	12.3		
Ref No.	Q1					Q2					Q4					Q101				
MODE	1	2	3	4	5	E	C	B			G	S	D			E	C	B		
REC	0	0	0	0	0	0	0	0			0.1	670	3.2			0.6	0.6	2.7		
PLAY	0	0	0	0	0	0	0	0			0.1	670	3.2			0.6	0.6	2.7		
STOP	0	0	0	0	0	0	0	0			0.1	670	3.2			0.6	0.6	2.7		
Ref No.	Q102			Q103			Q104				Q105									
MODE	E	C	B	E	C	B	E	C	B		1	2	3	4	5	6	7	8		
REC	5.2	0.4	5.1	0	5.2	0.4	0	0	0.7		5.1	5.1	5.1	8.8	5.2	5.2	5.2	5.2		
PLAY	5.2	0.4	5.1	0	5.2	0.4	0	0	0.7		5.1	5.1	5.1	8.8	5.2	5.2	5.2	5.2		
STOP	5.2	0.4	5.2	0	5.2	0.4	0	0	0.7		5.1	5.1	5.1	8.8	5.2	5.2	5.2	5.2		
Ref No.	Q106			Q107										Q301					Q302		
MODE	E	C	B	1	2	3	4	5	6	7	8		E	C	B		E	C	B	
REC	8.9	0	9.1	12.4	12.4	12.4	6.5	12.4	12.4	12.4	12.4		2.0	4.4	7.1		3.5	4.1	8.9	
PLAY	12.4	12.4	0	12.4	12.4	12.4	6.5	12.4	12.4	12.4	12.4		2.0	4.4	7.1		3.5	4.1	8.6	
STOP	12.1	12.1	0	12.4	12.4	12.4	6.5	12.4	12.4	12.4	12.4		2.0	4.4	6.9		3.5	4.2	8.6	
Ref No.	Q303			Q304			Q305				Q306				Q307					
MODE	E	C	B	E	C	B	E	C	B		E	C	B		E	C	B			
REC	7.1	12.4	7.3	6.9	0	7.1	8.8	12.4	9.1		8.5	0	8.7		12.4	7.3	12.0			
PLAY	7.1	12.4	7.2	7.1	0	7.2	8.7	12.4	8.9		8.6	0	8.9		12.4	7.1	12.0			
STOP	12.4	7.1	11.9	6.9	0	7.1	8.5	12.4	8.7		8.5	0	8.7		12.4	7.0	12.0			
Ref No.	Q308			Q309			Q310				Q311				Q312					
MODE	E	C	B	E	C	B	E	C	B		E	C	B		E	C	B			
REC	12.4	9.1	11.9	0	5.5	0.3	0	3.8	0.3		12.4	12.0	12.1		12.4	11.9	12.2			
PLAY	12.4	8.8	11.9	0	5.6	0.3	0	4.0	0.3		12.4	12.0	12.1		12.4	11.9	12.1			
STOP	12.4	8.7	11.8	0	5.6	0.3	0	4.1	0.3		12.2	12.0	12.1		12.4	11.8	12.1			

RGB P.C.B.			
Transistor		IC3507	B-5
Q3501	B-3	IC3508	B-3
Q3502	B-2	IC3509	B-1
Q3503	B-2	**Test Points**	
Q3504	B-1	TL3501	B-2
Q3505	B-1	TL3502	A-2
Q3506	B-1	**Connector**	
Q3507	B-2	PS3501	A-4
Q3508	A-2	PS3502	A-3
Q3509	B-1	PS3503	A-1
Integrated Circuits		**Volume**	
IC3501	B-2	VC3516	A-2
IC3502	A-2	VC3517	A-3
IC3503	B-4	VR3501	B-2
IC3506	B-5		

ADDRESS INFORMATION



DMR-HS2EB/EB1/EG/EG1/GN
RGB P.C.B. (REP2579A)

Ref No.	IC3501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	0	2.9	1.7	2.5	1.7	3.2	2.8	0	1.9	4.9	4.9	2.1	2.1	3.1	3.7	3.8	3.8	3.9	3.3
PLAY	0	0	2.9	1.7	2.5	1.7	3.2	2.8	0	1.9	4.9	4.9	2.1	2.1	3.1	3.7	3.8	3.8	3.9	3.3
STOP	0	0	2.9	1.7	2.5	1.7	3.2	2.8	0	1.9	4.9	4.9	2.1	2.1	3.1	3.7	3.8	3.8	3.9	3.3

Ref No.	IC3502																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	0	0	0.7	2.2	2.2	0	0	0	0	0	0	2.5	2.5	2.4	0	4.9				
PLAY	0	0	0.7	2.2	2.2	0	0	0	0	0	0	2.5	2.5	2.4	0	4.9				
STOP	0	0	0.7	2.2	2.2	0	0	0	0	0	0	2.5	2.5	2.4	0	4.9				

Ref No.	IC3503																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	0	0.7	0	0.7	0	0	0.7	0	2.3	2.3	0	2.3	2.3	2.3	2.3	4.9				
PLAY	0	0.7	0	0.7	0	0	0.7	0	2.3	2.3	0	2.3	2.3	2.3	2.3	4.9				
STOP	0	0.7	0	0.7	0	0	0.7	0	2.3	2.3	0	2.3	2.3	2.3	2.3	4.9				

Ref No.	IC3506																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	0	0.7	0.7	0.7	0.7	0	0	0	0	0	0	0.7	0	0.7	0.7	4.9				
PLAY	0	0.7	0.7	0.7	0.7	0	0	0	0	0	0	0.7	0	0.7	0.7	4.9				
STOP	0	0.7	0.7	0.7	0.7	0	0	0	0	0	0	0.7	0	0.7	0.7	4.9				

Ref No.	IC3507																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	0.7	0.7	0.7	0.7	0.7	0	0	0	0	0	0	0.7	0.7	0.7	0.7	4.9				
PLAY	0.7	0.7	0.7	0.7	0.7	0	0	0	0	0	0	0.7	0.7	0.7	0.7	4.9				
STOP	0.7	0.7	0.7	0.7	0.7	0	0	0	0	0	0	0.7	0.7	0.7	0.7	4.9				

Ref No.	IC3508																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.0	4.8	2.7	0	2.5	4.8	0	2.1	0	1.5	4.8	2.7	0	2.7	4.8	2.1	2.1	0	2.1	0
PLAY	2.0	4.8	2.7	0	2.5	4.8	0	2.1	0	1.5	4.8	2.7	0	2.7	4.8	2.1	2.1	0	2.1	0
STOP	2.0	4.8	2.7	0	2.5	4.8	0	2.1	0	1.5	4.8	2.7	0	2.7	4.8	2.1	2.1	0	2.1	0

Ref No.	IC3508																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	1.2	1.1	0	2.0	2.0	0	1.9	0	1.9	1.9	0	2.2								
PLAY	1.2	1.1	0	2.0	2.0	0	1.9	0	1.9	1.9	0	2.2								
STOP	1.2	1.1	0	2.0	2.0	0	1.9	0	1.9	1.9	0	2.2								

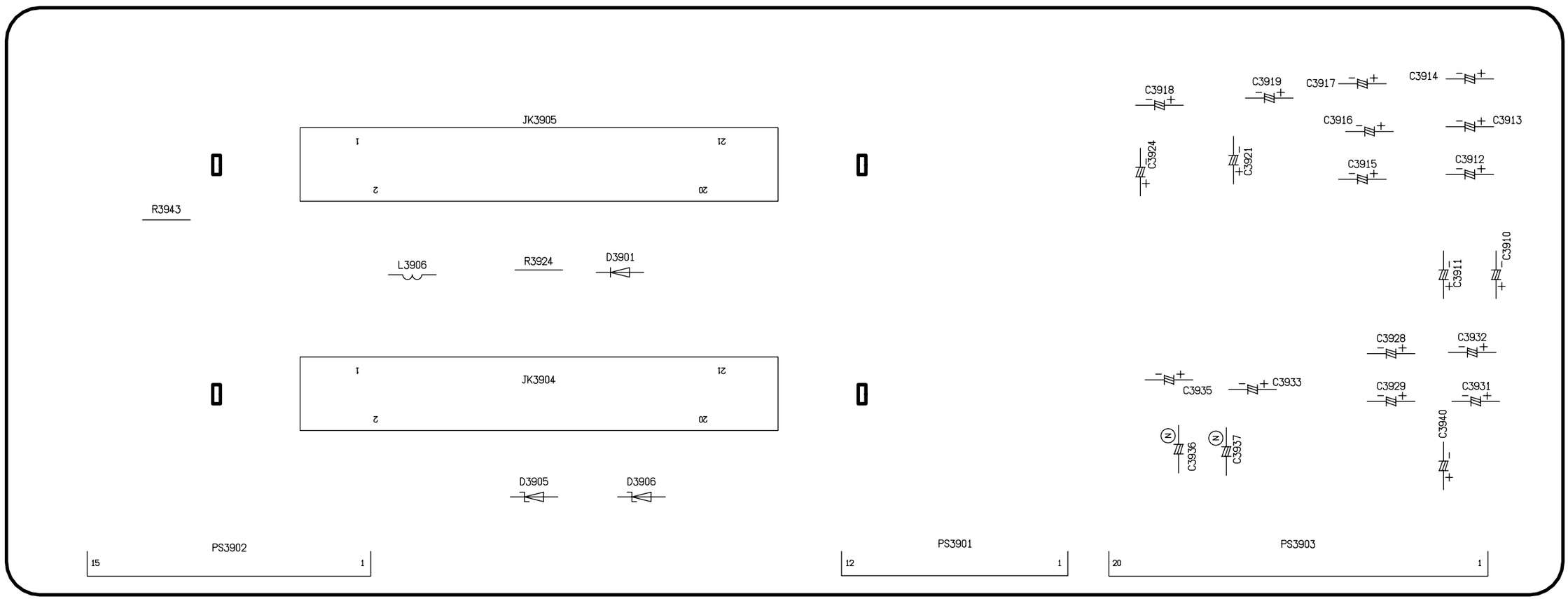
Ref No.	IC3509																			
MODE	1	2	3	4	5															
REC	2.6	0.7	0	4.9	4.9															
PLAY	2.6	0.7	0	4.9	4.9															
STOP	2.6	0.7	0	4.9	4.9															

Ref No.	Q3501				Q3502				Q3503				Q3504				Q3505			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	1.3	4.9	1.9		1.3	4.9	1.9		1.3	4.9	1.9		0	0	0.7		1.0	4.2	1.7	
PLAY	1.3	4.9	1.9		1.3	4.9	1.9		1.3	4.9	1.9		0	0	0.7		1.0	4.2	1.7	
STOP	1.3	4.9	1.9		1.3	4.9	1.9		1.3	4.9	1.9		0	0	0.7		1.0	4.2	1.7	

Ref No.	Q3506				Q3507				Q3508				Q3509							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
REC	4.9	2.4	4.2		3.1	0	2.5		1.7	0	1.1		1.3	4.9	1.9					
PLAY	4.9	2.4	4.2		3.1	0	2.5		1.7	0	1.1		1.3	4.9	1.9					
STOP	4.9	2.4	4.2		3.1	0	2.5		1.7	0	1.1		1.3	4.9	1.9					

SCART P.C.B.			
Transistor		QR3908	B-2 F
Q3902	A-1 F	QR3909	B-2 F
Q3905	B-3 F	QR3910	B-3 F
Q3906	B-3 F	QR3911	B-3 F
Q3907	A-5 F	QR3912	A-3 F
Q3908	B-2 F	QR3913	A-2 F
Q3909	B-3 F	QR3914	A-1 F
Q3910	B-3 F	QR3915	A-1 F
Transistor - resistors		**Integrated Circuits**	
QR3901	B-5 F	IC3901	B-2 F
QR3902	A-5 F	**Connector**	
QR3903	B-5 F	JK3904	A-2 C
QR3904	A-5 F	JK3905	B-2 C
QR3905	A-5 F	PS3901	A-4 C
QR3906	B-5 F	PS3902	A-1 C
QR3907	B-5 F	PS3903	A-5 C

ADDRESS INFORMATION
C….COMPONENT SIDE
F….FOIL SIDE



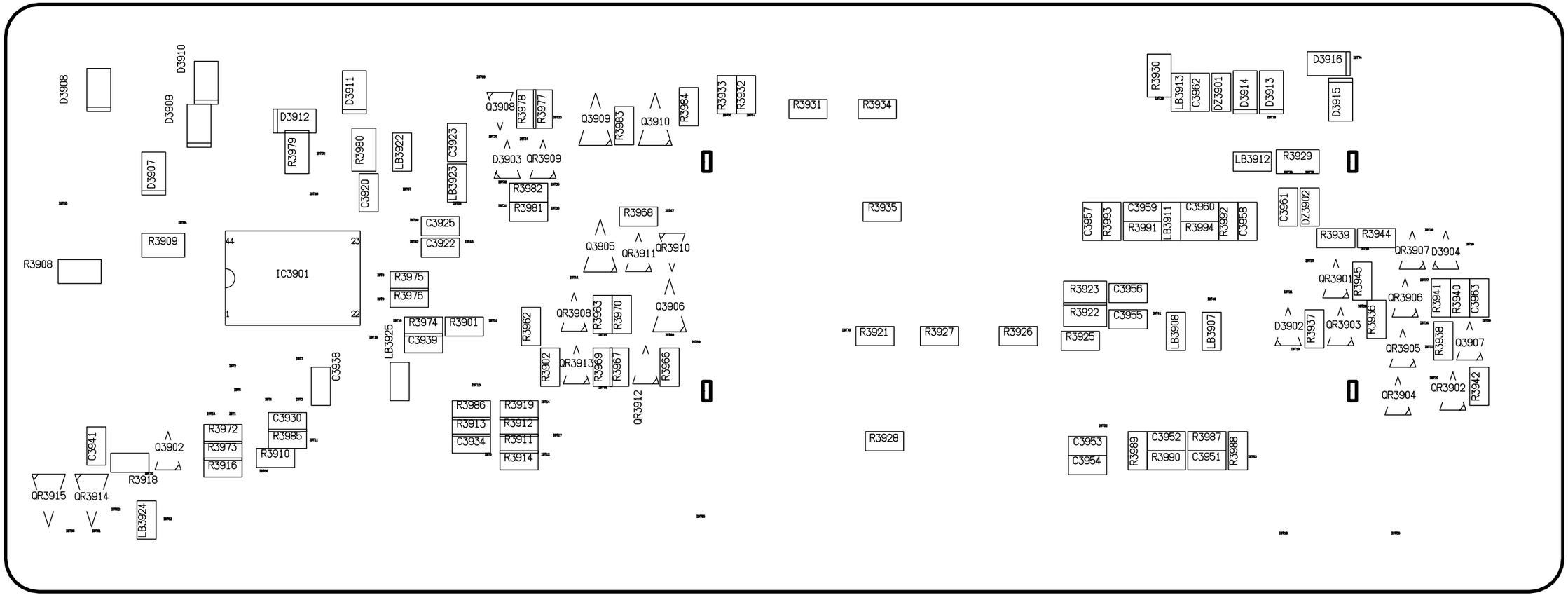
(COMPONENT SIDE)

DMR-HS2EB/EB1/EG/EG1/GN
Scart P.C.B. (REP2578A)

1 2 3 4 5

SCART P.C.B.			
Transistor		QR3908	B-2 F
Q3902	A-1 F	QR3909	B-2 F
Q3905	B-3 F	QR3910	B-3 F
Q3906	B-3 F	QR3911	B-3 F
Q3907	A-5 F	QR3912	A-3 F
Q3908	B-2 F	QR3913	A-2 F
Q3909	B-3 F	QR3914	A-1 F
Q3910	B-3 F	QR3915	A-1 F
Transistor - resistors		**Integrated Circuits**	
QR3901	B-5 F	IC3901	B-2 F
QR3902	A-5 F	**Connector**	
QR3903	B-5 F	JK3904	A-2 C
QR3904	A-5 F	JK3905	B-2 C
QR3905	A-5 F	PS3901	A-4 C
QR3906	B-5 F	PS3902	A-1 C
QR3907	B-5 F	PS3903	A-5 C

ADDRESS INFORMATION
C….COMPONENT SIDE
F….FOIL SIDE



(FOIL SIDE)

DMR-HS2EB/EB1/EG/EG1/GN
Scart P.C.B. (REP2578A)

1	2	3	4	5

Ref No.	IC3901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.6	5.6	0.1	0.1	1.5	0	2.2	0	0	5.6	5.6	4.9	2.2	12.0	5.6	5.6	0	1.7	3.6	0
PLAY	5.6	5.6	0.1	0.1	1.6	0	2.2	0	0	5.6	5.6	4.9	2.2	12.0	5.6	5.6	0	1.8	3.6	12.0
STOP	5.6	5.6	0.1	0	1.6	0	2.2	0	0	5.6	5.6	4.9	2.2	12.0	5.6	5.6	0	1.8	3.6	0

Ref No.	IC3901																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	4.2	4.4	1.8	4.9	2.0	2.0	0	1.8	4.9	4.9	4.9	0	5.6	5.6	0.1	5.6	5.6	0	4.9	4.9
PLAY	4.2	4.4	1.8	4.9	2.0	2.0	0	1.8	5.0	4.9	4.9	0	5.6	5.6	0.1	5.6	5.6	0	4.9	4.9
STOP	4.2	4.4	1.8	4.9	2.0	2.0	0	1.8	5.0	4.9	4.9	0	5.6	5.6	0.1	5.6	5.6	0	4.9	4.9

Ref No.	IC3901			
MODE	41	42	43	44
REC	0	4.9	4.9	0
PLAY	0	4.9	4.9	0
STOP	0	4.9	4.9	0

Ref No.	Q3902			Q3905			Q3906			Q3907			Q3908		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	2.2	0	0	0.6	0.5	0	4.9	0.4	4.9	0	12.0	0	4.9	0.1	4.9
PLAY	2.1	0	1.6	0.1	0.1	0	4.9	0.4	4.9	0	12.0	0	4.9	0	5.0
STOP	2.2	0	1.4	0	0	0	4.9	0	4.9	0	12.0	0	4.9	0	5.0

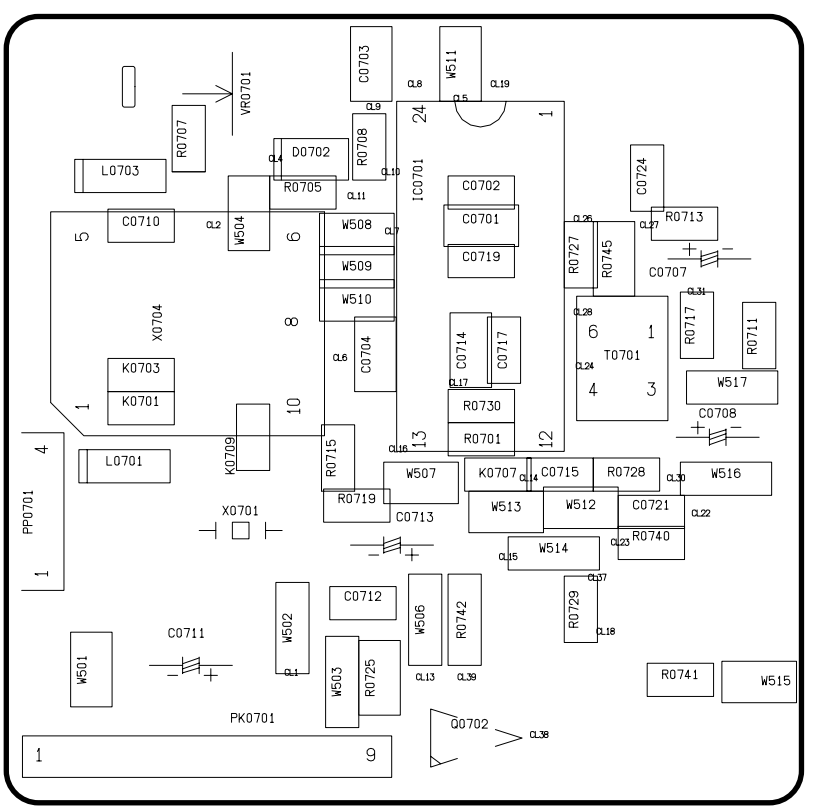
Ref No.	Q3909			Q3910		
MODE	E	C	B	E	C	B
REC	0	0	-0.6	0	0	0
PLAY	0	0	-0.1	0	0	-0.1
STOP	0	0	0	0	0	-0.1

Ref No.	QR3901			QR3902			QR3903			QR3904			QR3905		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	0	0	0	0	0	0	0	0	0	4.1	0	0	0	4.1
PLAY	0	0	4.2	0	0	4.7	0	4.0	0	0	4.1	0	0	0	4.1
STOP	0	0	0	0	0	0	0	0	0	0	4.1	0	0	0	4.1

Ref No.	QR3906			QR3907			QR3908			QR3909			QR3910		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	12.0	0	12.0	0	12.0	0	0	0	0	5.0	0	0	3.5	0
PLAY	0	0	4.0	0	11.4	12.0	0	0	0	0	5.0	0	0	0	12.0
STOP	0	12.0	0	12.0	0	12.0	-0.1	0	0	0	5.0	0	0	3.5	0

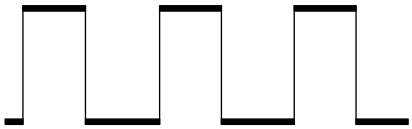
Ref No.	QR3911			QR3912			QR3913			QR3914			QR3915		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	0	2.2	4.9	4.9	0	0	4.9	0	0	4.2	0	0.4	4.4	0
PLAY	0	4.9	0	4.9	4.9	4.9	0	4.9	0	0.2	4.2	0	0	4.4	0
STOP	0	0	3.5	4.9	4.9	0	0	4.9	0	0.1	4.8	0	0	4.8	0

VIF Decoder P.C.B.



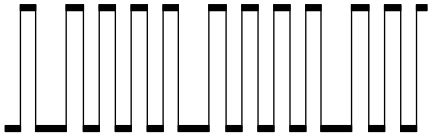
VIF Decoder P.C.B.
VEP07A23T:DMR-HS2EB/EB1
VEP07A23S:DMR-HS2EG/EG1/GN

WF No. P9001-43 (REC/PLAY)



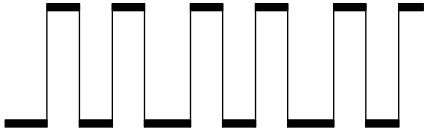
0.6Vp-p(20usec/div)

WF No. P9001-45 (REC/PLAY)



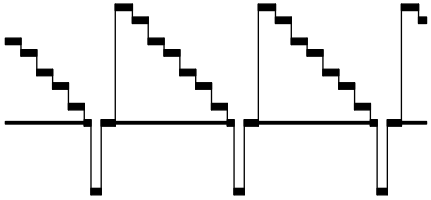
0.6Vp-p(20usec/div)

WF No. P9001-47 (REC/PLAY)



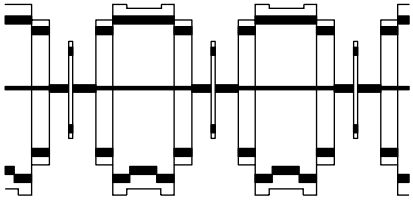
0.6Vp-p(20usec/div)

WF No. P9001-49 (REC/PLAY)



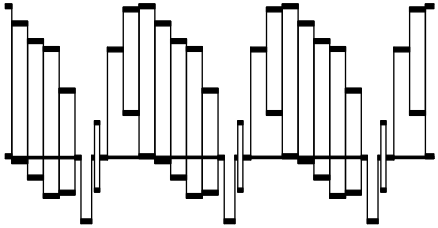
0.9Vp-p(20usec/div)

WF No. P9001-51 (REC/PLAY)



1.0Vp-p(20usec/div)

WF No. P9001-55 (REC/PLAY)

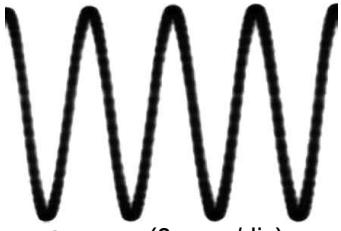


1.0Vp-p(20usec/div)

WF No. P9001-72 (REC/PLAY)

0.5Vp-p(2msec/div)

WF No. P9001-74 (REC/PLAY)



0.5Vp-p(2msec/div)

WF No. P9001-78 (REC/PLAY)

0.6Vp-p(1msec/div)

WF No. P9001-80 (REC/PLAY)

0.6Vp-p(1msec/div)

:REC SIGNAL :PB SIGNAL

MAIN P.C.B. MAIN P.C.B. SCART P.C.B.

AV4
JK3001
REAR JACK
LINE OUT (L)
LINE OUT (R)

IC4009
P9001 80 PP9901 80 MIX R OUT DM
P9001 78 PP9901 78 MIX L OUT DM
MIX R OUT2
MIX L OUT2

MIX R OUT1
MIX L OUT1
PP3006 12 PS3902 12
PP3006 14 PS3902 14

FROM DIGITAL BLOCK

HS2EB/EB1 Only
IC4501
Q4501
AMP
RFC A OUT
TU7701
TUNER PACK
AUDIO IN

P9001 66 PP9901 66 IEC OUT
IC4007
D5V
IC4005
IC4006
OPTICAL
(DIGITAL AUDIO OUT)

AV4
JK3001
REAR JACK
LINE IN (R)
LINE IN (L)
L1 IN(R)
L1 IN(L)

IC4002 (SELECTOR SW.)
Y3
X3
Y1
X1
L3 IN(R)
L3 IN(L)
PP3006 7 PS3902 7
PP3006 9 PS3902 9

IC3901 (SELECTOR SW.)
R CH
L CH
R CH
L CH

AV2
JK3904
DECODER/EXT
AUDIO OUT CH2(R)
AUDIO IN CH2(R)
AUDIO OUT CH1(L)
AUDIO IN CH1(L)

AV3
JK7001
FRONT JACK
FRONT LINE (L)
FRONT LINE (R)
P7001 11 P7501 11 L2 IN(L)
P7001 9 P7501 9 L2 IN(R)
X2
Y2

IC4004
IC4003
L IN
R IN
L OUT
R OUT
A ADC L
A ADC R
PP9901 72 P9001 72
PP9901 74 P9001 74
TO DIGITAL BLOCK

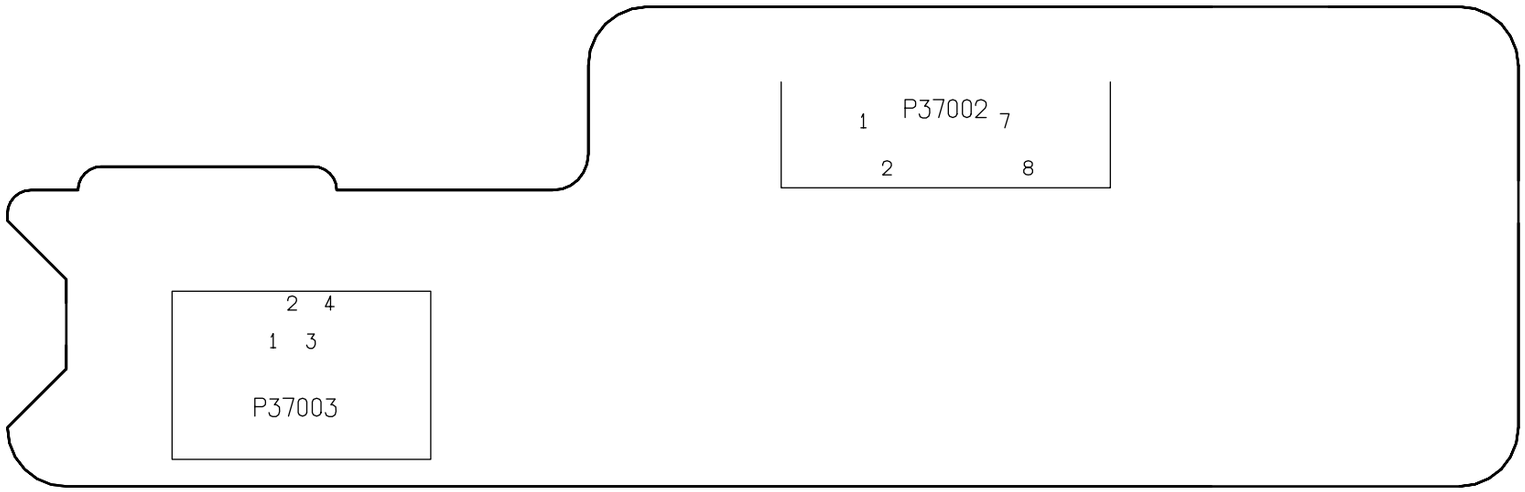
AV1
JK3905
TV
AUDIO OUT CH2(R)
AUDIO IN CH2(R)
AUDIO OUT CH1(L)
AUDIO IN CH1(L)

DU7701
TUNER
AUDIO OUT
IC7301
MSD

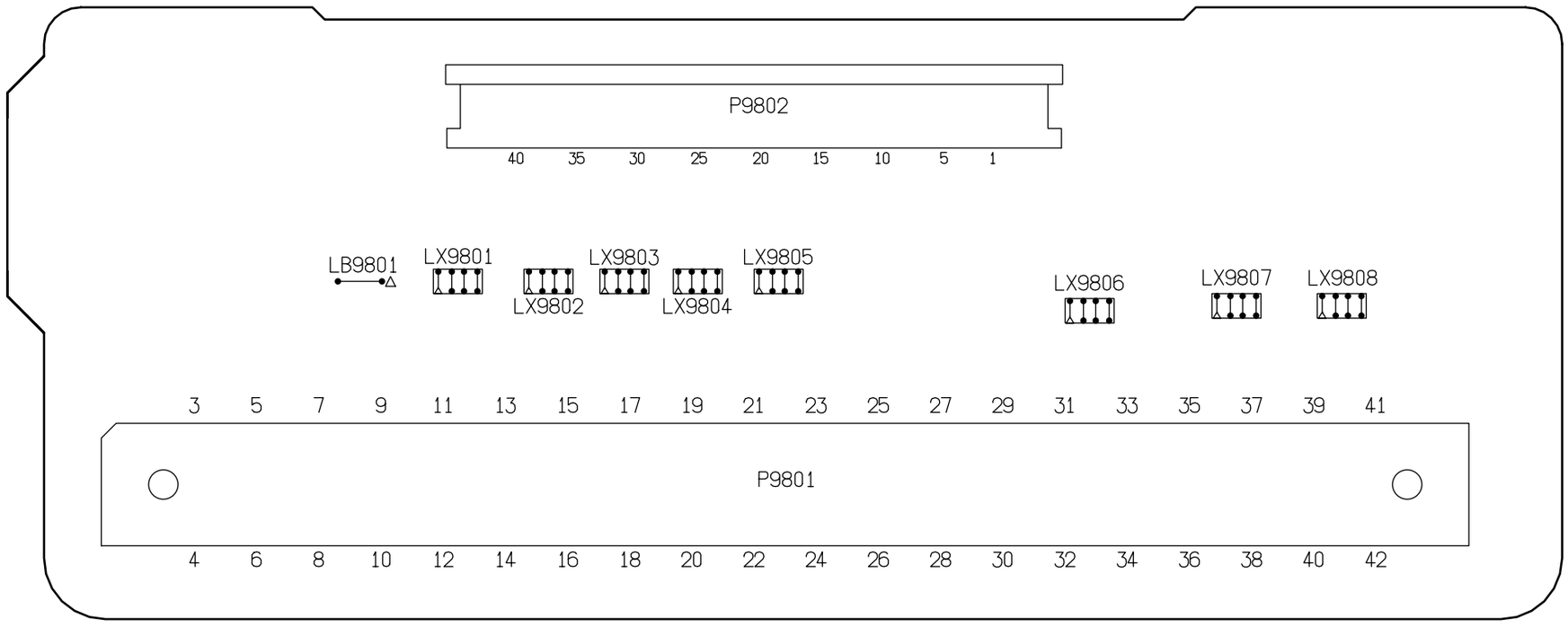
IC7601 (BUFFER)
PK7702 4 DECODER(R)
PK7702 6 DECODER(L)
P5
P3
P7
P1
PP3004 10 PS3903 10
PP3004 8 PS3903 8

DMR-HS2EB/EB1/EG/EG1/GN
Analog Audio Block Diagram

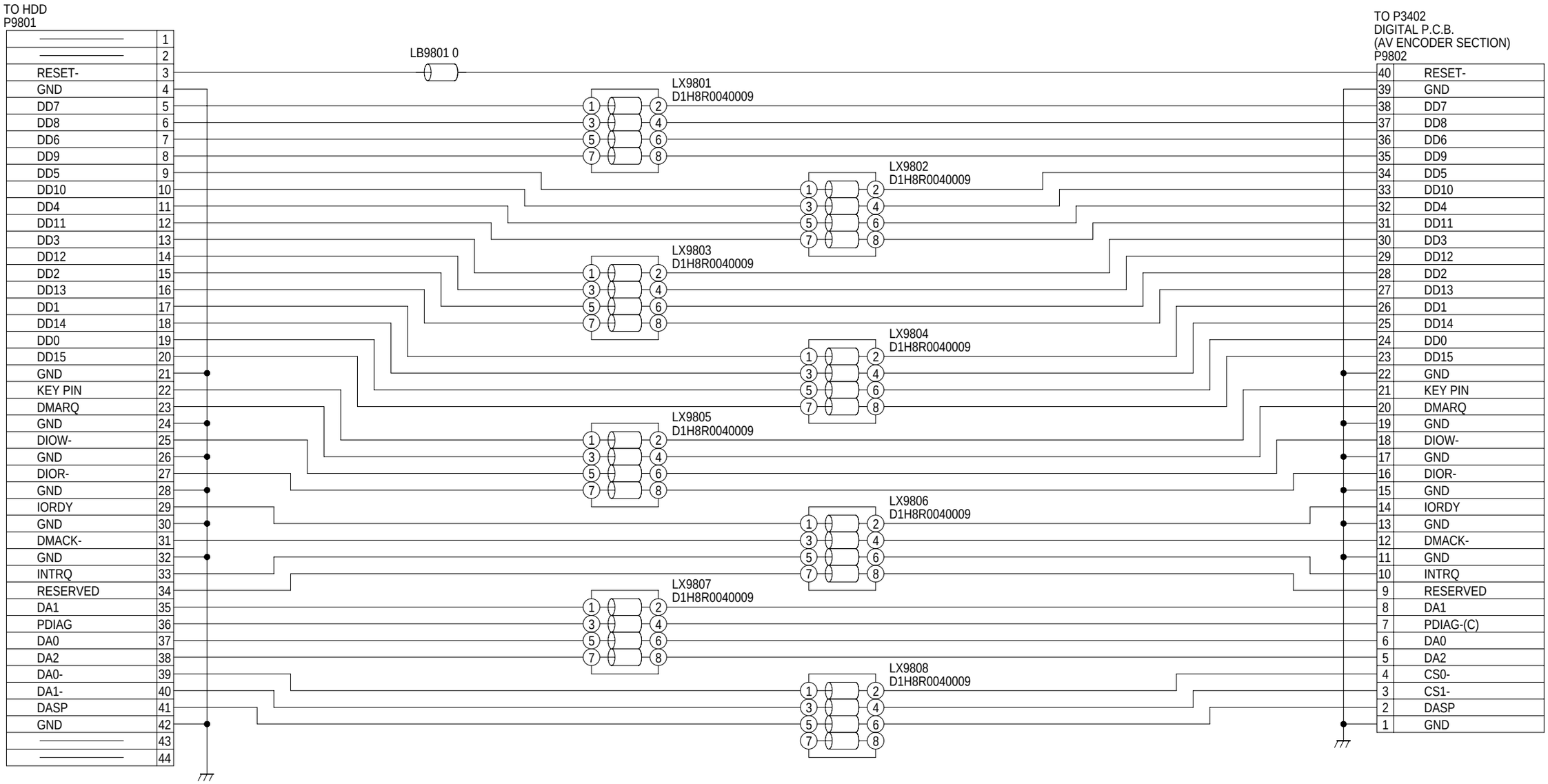
DV INPUT JACK P.C.B.



ATAPI P.C.B.



DMR-HS2EB/EB1/EG/EG1/GN
DV Input Jack P.C.B. (REP3369AC)
ATAPI P.C.B. (REP3369AB)


TO HDD
P9801
1
2
RESET- 3
GND 4
DD7 5
DD8 6
DD6 7
DD9 8
DD5 9
DD10 10
DD4 11
DD11 12
DD3 13
DD12 14
DD2 15
DD13 16
DD1 17
DD14 18
DD0 19
DD15 20
GND 21
KEY PIN 22
DMARQ 23
GND 24
DIOW- 25
GND 26
DIOR- 27
GND 28
IORDY 29
GND 30
DMACK- 31
GND 32
INTRQ 33
RESERVED 34
DA1 35
PDIAG 36
DA0 37
DA2 38
DA0- 39
DA1- 40
DASP 41
GND 42
43
44
LB9801 0
LX9801
D1H8R0040009
LX9802
D1H8R0040009
LX9803
D1H8R0040009
LX9804
D1H8R0040009
LX9805
D1H8R0040009
LX9806
D1H8R0040009
LX9807
D1H8R0040009
LX9808
D1H8R0040009
TO P3402
DIGITAL P.C.B.
(AV ENCODER SECTION)
P9802
40 RESET-
39 GND
38 DD7
37 DD8
36 DD6
35 DD9
34 DD5
33 DD10
32 DD4
31 DD11
30 DD3
29 DD12
28 DD2
27 DD13
26 DD1
25 DD14
24 DD0
23 DD15
22 GND
21 KEY PIN
20 DMARQ
19 GND
18 DIOW-
17 GND
16 DIOR-
15 GND
14 IORDY
13 GND
12 DMACK-
11 GND
10 INTRQ
9 RESERVED
8 DA1
7 PDIAG-(C)
6 DA0
5 DA2
4 CS0-
3 CS1-
2 DASP
1 GND

M:MAIN NET SECTION(Page: A)
V:VIDEO I/O SECTION(Page: B)
A:AUDIO MAIN SECTION(Page: C)
T:TIMER SECTION(Page: D)

C

IC4004
C1AB00000818

IC4002
C0JBAR000285
(SELECTOR SW.)

IC4003
C0ABBB000126
(AMP)

IC4006
K7AABA000001
OPTICAL
(DIGITAL AUDIO OUT)

IC4007
C0JBAA000134
(IECOUT)

IC4008
C0ABBB000108
(AMP)

IC4009
C0ABBB000126
(AMP)

IC4005
C0JBAB000178
(INV.)

IC4010
C0DBZJG00005
(REG.AU+12V)

IC4011
AN78L09ME1
(REG.AU+9V)

IC4012
C0ABBB000108
(AMP)

IC4501
C1BB00000083
(AMP)

Q4001 2SD132800L (MUTE)
Q4002 2SD132800L (MUTE)
Q4006 2SD132800L (MUTE)
Q4007 2SD132800L (MUTE)
Q4008 2SD132800L (MUTE)
Q4009 2SD132800L (MUTE)
Q4501 2SD601A0L (AMP)
Q4004 2SB1218A0L (MUTE)

QR4010 UNR521100L (INV.)
QR4011 UNR521100L (INV.)
QR4012 UNR511300L (MUTE)
QR4002 UNR521100L (MUTE)
QR4003 UNR521100L (MUTE)
QR4004 UNR521100L (MUTE)
QR4005 UNR521100L (MUTE)
QR4006 UNR521100L (P OFF(L):OFF)
QR4007 UNR521100L (SWITCH)

L4002 ELESN220KA
LB4001 J0JGC0000020
LB4501 J0JGC0000020
IP4001 D4FAR4000001

D4003 MA32142D0RG
D4005 MA32142D0RG
D4006 MA32142D0RG

AU 12V
AADC L
L1 IN L
L3 IN L
L2 IN L
L2 IN R
L1 IN R
L3 IN R
A IN SEL2
A IN SEL1
AADC R
AUD ST
AUD CLK
AUD DATA
AU 9V
AU GND
MIXLOUT DM
METER L
METER R
MIXROUT DM
X SW 15.5V
X SW 5V
XSCART MUTE
AUDIO MUTE
XTMUTE
XDMUTE
P OFF(L)
GND
D5V
IECOUT
RFC A OUT
MIX L OUT2
MIX L OUT1
MIX R OUT1
MIX R OUT2
AU GND

(HS2EB/EB1 only)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN
Audio Main Section(Main P.C.B.(3/4))
Schematic Diagram(A)

MAIN P.C.B.
RGB P.C.B.
MAIN P.C.B.
SCART P.C.B.
:REC SIGNAL
:PB SIGNAL
FROM DIGITAL BLOCK
FL3004
Y OUT DM
Q3008
AMP
IC3508
(VIDEO BUFFER)
6M LPF
6dB
750hm
Y OUT
C OUT
V OUT
FL3003
C OUT DM
Q3007
1.5-6M BPF
CPN Y OUT
CPN C OUT
CPS V OUT
AV4
JK3001
REAR JACK
S-VIDEO
CPN OUT
V OUT
HS2EB/EB1 Only
TU7701
TUNER PACK
RFC V OUT
VIDEO IN
IC3506
(SELECTOR SW.)
IC3507
(SELECTOR SW.)
IC3503
(RGB BUFFER)
FL3005
GPYOUT DM
Q3009
FL3007
BPBOUT DM
Q3011
FL3006
RPROUT DM
Q3010
R/C OUT
G/Y OUT
B OUT
R OUT
G OUT
B OUT
AV1
JK3905
TV
RED/C OUT
GREEN OUT
BLUE OUT
VIDEO/Y OUT
VIDEO IN
AV3
FRONT JACK
JK7002
S-VIDEO IN
JK7001
VIDEO IN
IC3006
(VIDEO BUFFER)
CPN 2Y IN
CPN 2C IN
LINE 2V IN
IC3502
(SELECTOR SW.)
IC3501
(VIDEO BUFFER)
Q3508
Q3503
Q3502
Q3501
Q3505-Q3507
IC3509,Q3504
SYNC SEP.
Q3509
AMP
CPS V OUT
CPN Y OUT
AV2
JK3904
DECODER/ EXT
RED/C IN
GREEN IN
BLUE IN
VIDEO OUT
VIDEO/Y IN
IC3901
(BUFFER AND SWITCH)
VIDEO IN(AV2)
VIDEO OUT(AV1)
VIDEO IN(AV1)
VIDEO OUT(AV2)
CPN Y
CPS V
SCART V OUT
TUNER VIDEO
Q3902
AV4
JK3001
REAR JACK
S-VIDEO IN
VIDEO IN
CPS VIN DM
CPN YIN DM
CPN CIN DM
Q3006
BUFFER
TO DIGITAL BLOCK
Y4 IN
C4 IN
VIDEO 4 IN
Y/C SEPA
Q3001,3002,FL3001
Y SEP.AND BUFFER
Q3003,3004,FL3002
C SEP.AND BUFFER
IC3001
(SELECTOR SW.)
SLICER VIDEO
TO TIMER BLOCK
SCART V IN
VIDEO2 IN
V1 OUT
Q7702
TUNER VIDEO
DU7701
VIDEO OUT

DMR-HS2EB/EB1/EG/EG1/GN
Analog Video Block Diagram

DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)

IC3
MN677551NA
(AVDEC)

DMR-HS2EB/EB1/EG/EG1/GN
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)

RA13 D1H82204A024
RA14 D1H82204A024
RA15 D1H82204A024
RA16 D1H82204A024
RA9 D1H82204A024
RA10 D1H82204A024
RA11 D1H82204A024
RA12 D1H82204A024

FL8 F1H0J1050018
FL9 F1H0J1050018
FL5 F1H0J1050018
FL6 F1H0J1050018

IC4
C3ABPG000067
or C3ABPG000078
or C3ABPG000063
(64Mbit SDRAM)

IC2
C3ABPG000067
or C3ABPG000078
or C3ABPG000063
(64Mbit SDRAM)

IC12
C0JBAZ001776
(74LCX541MTCX)
(DV I/O)

IC1
C1DB00000895
(CLOCK GEN.)

IC9
C1DB00000950

LB1
J0JHC0000032

C12 0.1
C15 6V22

R55 47
R56 47
R2 47
R3 47
R4 22
R60 47
R57 0

FL1 F1H0J1050018
FL2 F1H0J1050018
FL25 F1H0J1050018
FL7 F1H0J1050018
FL3 F1H0J1050018
FL4 F1H0J1050018
FL27 F1H0J1050018

DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)

IC15 C0CBCBD00002 (PQ1K333M2ZP) (AVDD OUT)
IC13 C0JBAD000107 (NC7SZ02P5X) (XDMUTE OUT)
IC10 C0FBBK000030 (PCM1742KE) (AUDIO D/A CONVERTER)
IC11 C0CBCBD00002 (PQ1K333M2ZP) (REG.DAC3.3V)
IC5 C0JBAR000332 (NC7SZ157P6X) (CLOCK OUT)
IC6 C0JBAB000474 (NC7SZU04P5X) (CLOCK OUT)
IC14 C0JBAF000206 (74VHC74MTCX) (DUAL FLIP-FLOP)

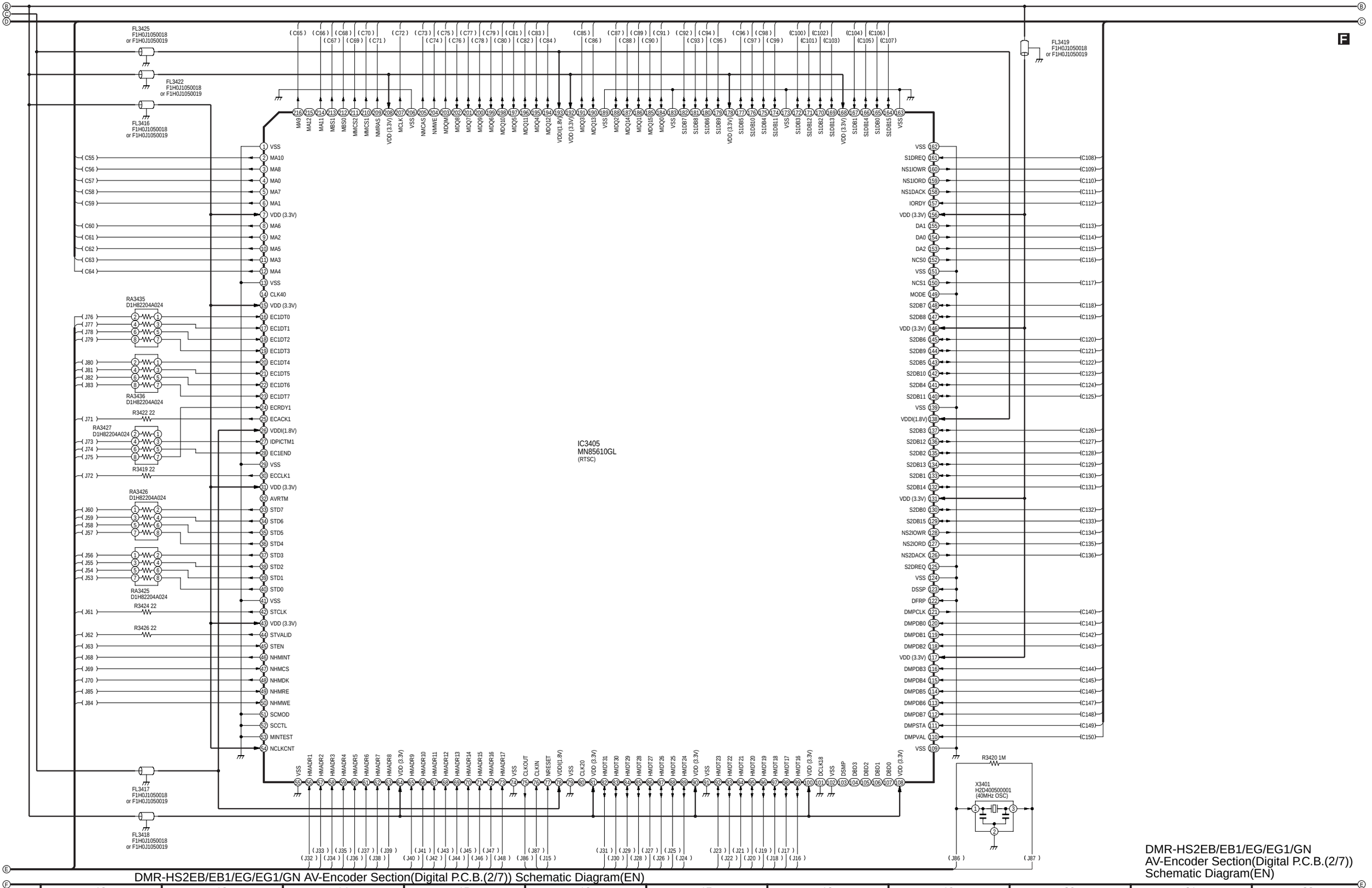
Q1 2SB1218A0L (AMP)
Q2 2SB1218A0L (AMP)
Q3 2SB1218A0L (AMP)
Q4 2SB1218A0L (AMP)
Q5 2SB1218A0L (AMP)

DMR-HS2EB/EB1/EG/EG1/GN
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)

DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)

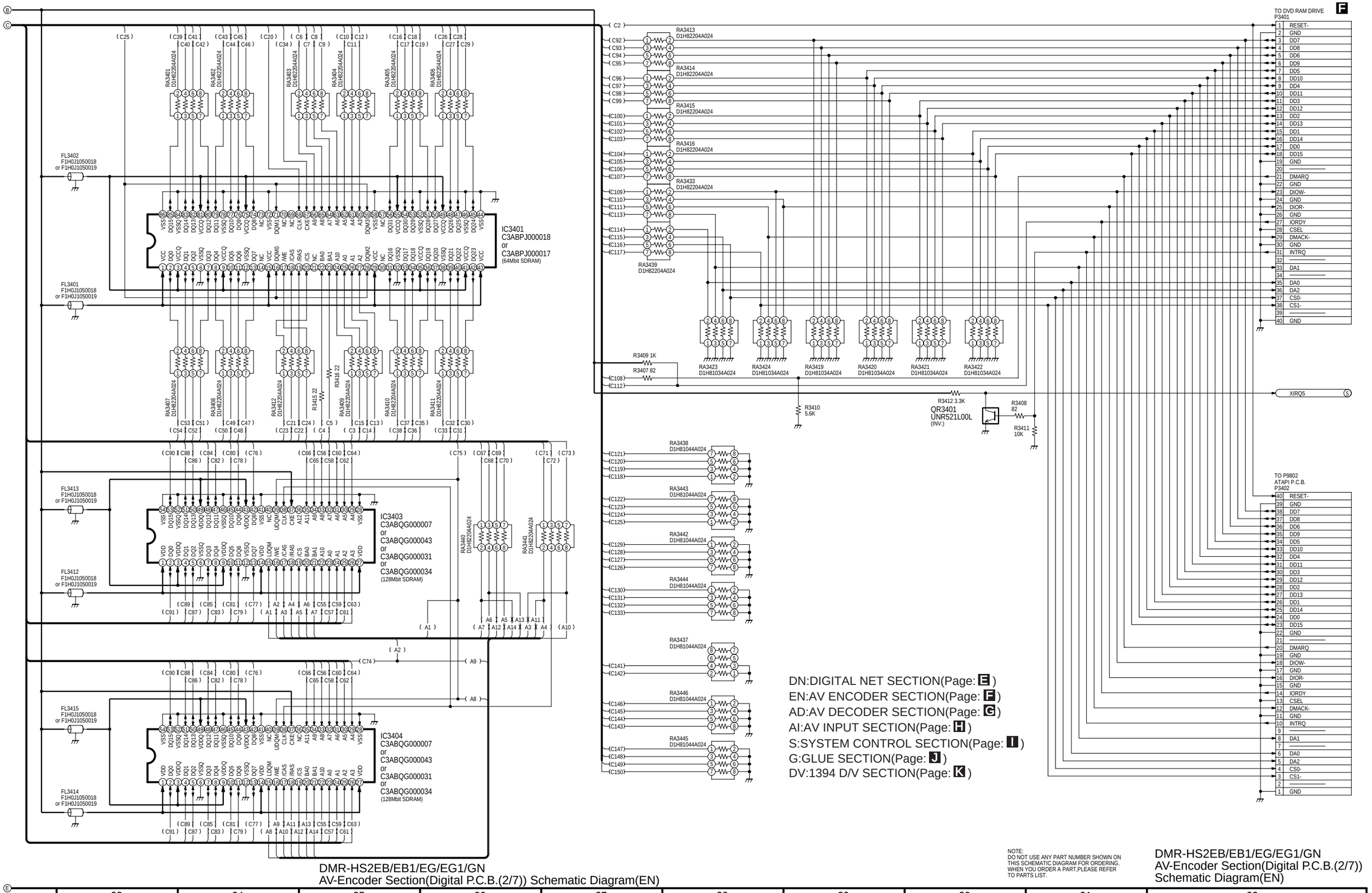
IC3402
MN85572
(AV ENCODER)

DMR-HS2EB/EB1/EG/EG1/GN
AV-Encoder Section
(Digital P.C.B.(2/7))
Schematic Diagram(EN)



DMR-HS2EB/EB1/EG/EG1/GN AV-Encoder Section(Digital P.C.B.(2/7)) Schematic Diagram(EN)

DMR-HS2EB/EB1/EG/EG1/GN
AV-Encoder Section(Digital P.C.B.(2/7))
Schematic Diagram(EN)

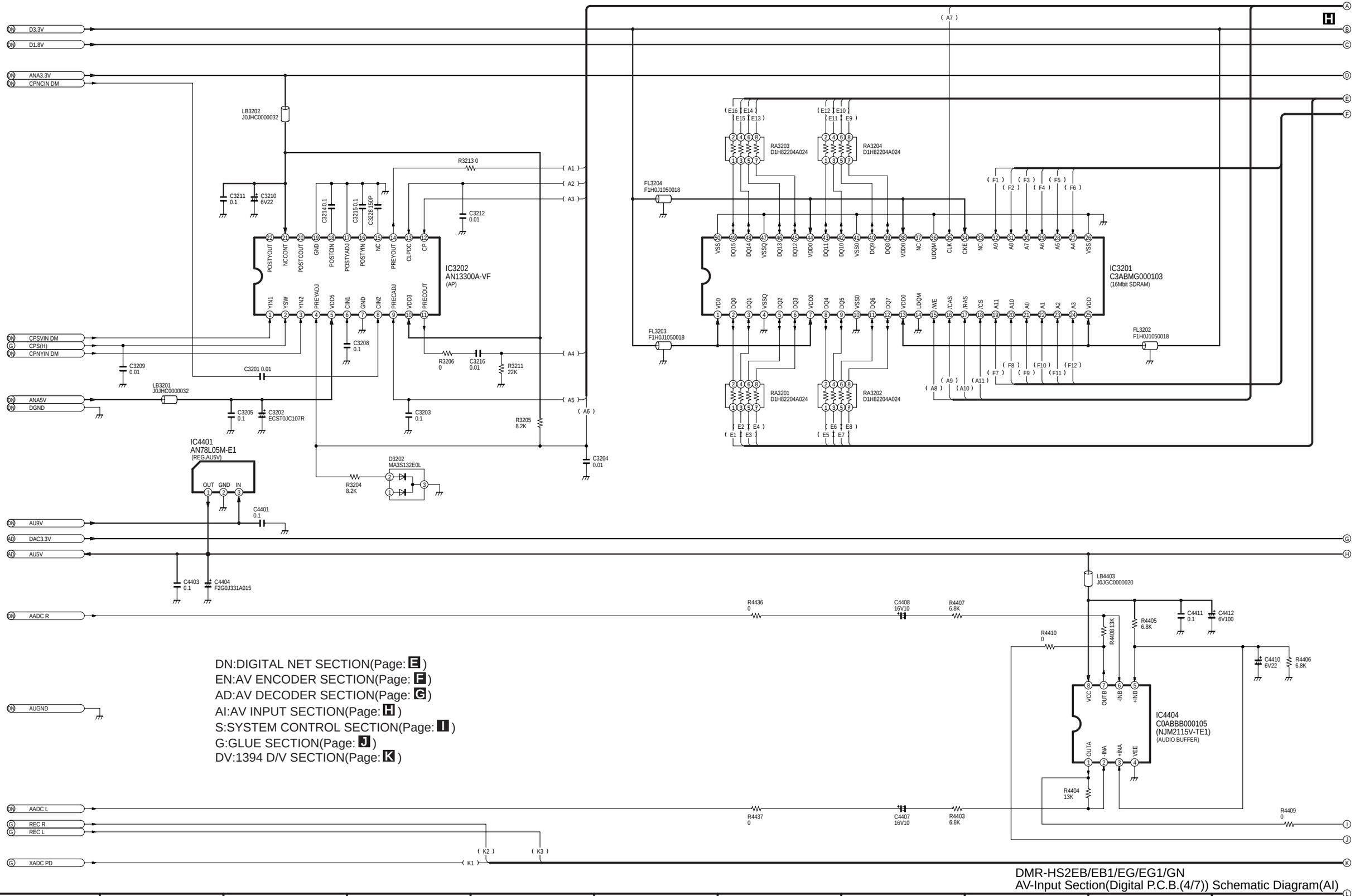


DN:DIGITAL NET SECTION(Page: E)
EN:AV ENCODER SECTION(Page: F)
AD:AV DECODER SECTION(Page: G)
AI:AV INPUT SECTION(Page: H)
S:SYSTEM CONTROL SECTION(Page: I)
G:GLUE SECTION(Page: J)
DV:1394 D/V SECTION(Page: K)

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
AV-Encoder Section(Digital P.C.B.(2/7)) Schematic Diagram(EN)

DMR-HS2EB/EB1/EG/EG1/GN
AV-Encoder Section(Digital P.C.B.(2/7)) Schematic Diagram(EN)



DMR-HS2EB/EB1/EG/EG1/GN
AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)